

Date: 3-24-2014

Project Manager: CDH

TRANSMITTAL SHEET

Attn: Div. of WM. Solid Waste

KEY PROPERTIES LANDFILL—SANDY CROSS ROAD ALAMANCE CO., NC

L.E.A.D.S. GROUP, P.A.

LAND ENGINEERING AND DEVELOPMENT SERVICES



Geoff Little:

2 sets plans for landfill
2 copies, application and OM manual inserts
2 copies Wetlands letter.

Please feel free to call with any questions 336-227-8724
Thank you,

Stephen Dodson, EI.
Chad Huffine, PE
The L.E.A.D.S. Group, PA.
505 East Davis Street
Burlington, NC 27215

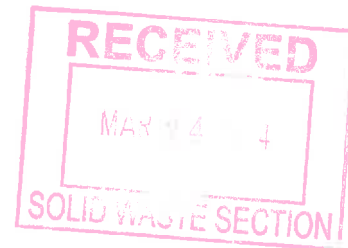
For the permitting Fee, Please Invoice:
Key Properties of Alamance County, Inc.
818 E. Hanover Road
Graham, NC 27253
Attn: Patty

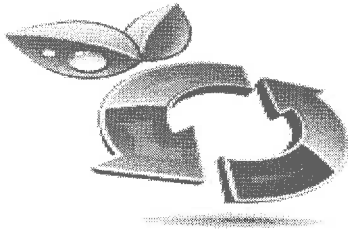
Fac/Perm/Cn ID #	Date	Doc ID#
01-07	01/11/2016	DIN 26878

L.E.A.D.S. GROUP, P.A.

505 E. Davis Street
Burlington, NC 27215

Phone: 336-227-8724
Fax: 336-222-9917





Piedmont

ENVIRONMENTAL

ASSOCIATES, PA

Key Properties

Attn.: Phil Martin

PO Box 100

Haw River, NC27285

Dear Mr. Martin,

This report details the findings of a stream and wetland evaluation performed on approximately one acre of the Key Properties LCID Landfill located in Alamance County, on Sandy Cross Road (SR 1752), approximately 0.9 miles west of the intersection with NC 49. The evaluation was conducted in order to determine the site's suitability for the expansion of yard waste mulching and landfill operation to serve Northern Alamance County and the surrounding region, especially in the wake of recent storms. This report does not address jurisdictional waters outside the stream feature and adjacent wetlands in the drainage identified on attached maps as "Feature A".

The evaluation was conducted by me, James Dasher, on Friday, March 14, 2014, with the use of standard NC DWQ and USACE stream and wetland evaluation techniques. Characteristics that affect the classifications of jurisdictional waters (streams and wetlands) include geomorphological, biological, hydrological, and related factors. Topography, slope, and the existence of water features on USDA NRCS Soil Survey maps or on USGS 7.5 minute quadrangles also affect the classification and regulation of surface waters. The evaluation of these components was conducted on the site. Soil conditions were particularly wet during my evaluation, and the water table was relatively high. The level of the evaluation was detailed, but no flags were hung in the field.

Feature A is a jurisdictional stream with adjacent wetlands. This means that the stream is subject to regulation by the US Army Corps of Engineers - Wilmington District and by the NC Division of Water Resources (formerly Division of Water Quality), as well as other government bodies and regulatory agencies. The adjacent wetlands are all

within 50' of the stream channel. Surface waters on site drain into Boyds' Creek, a tributary to the Haw River, and are classified by NC DWR as WS-V; NSW.

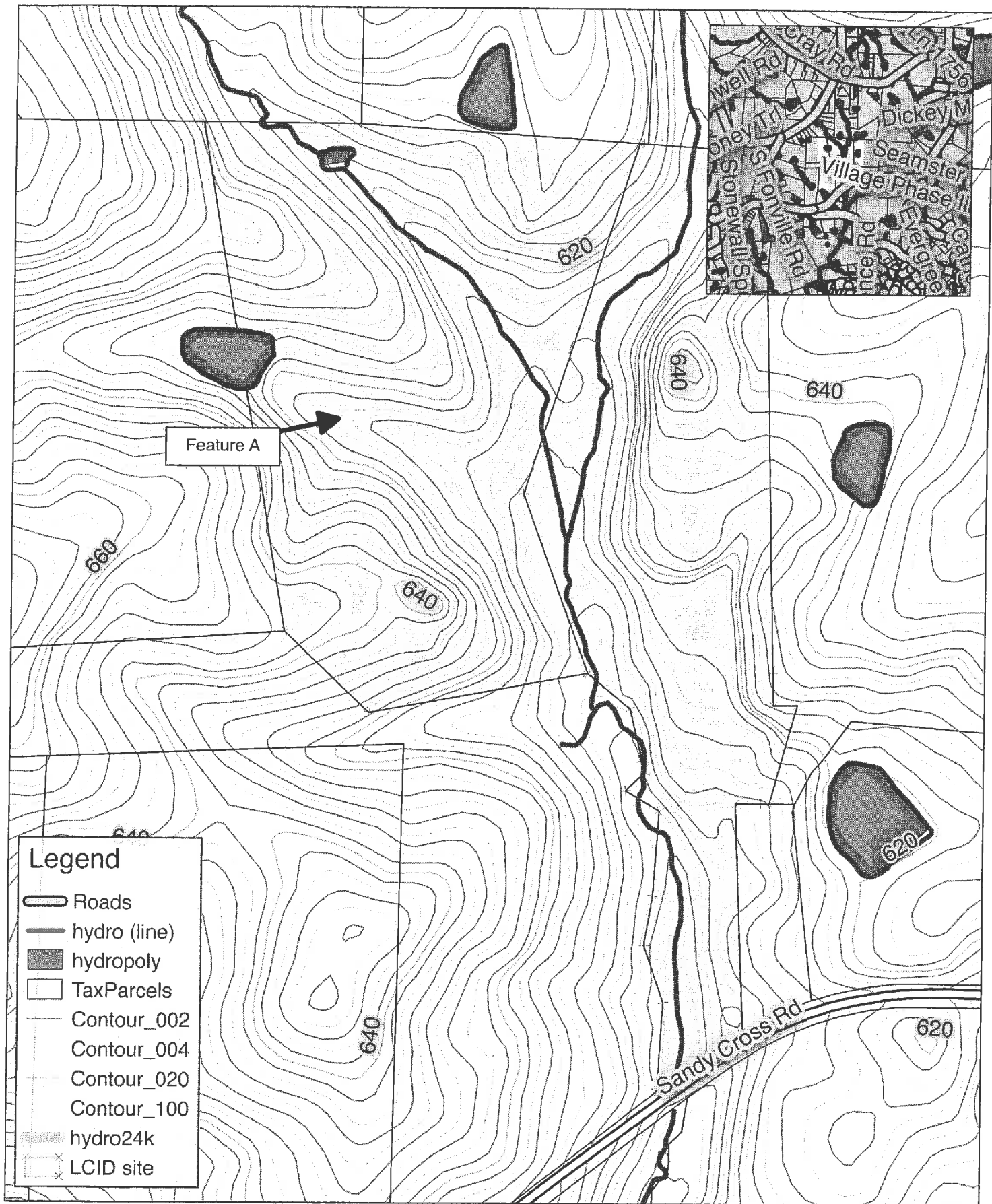
The stream was surveyed at the top of bank by Boswell Surveyors. Based on the attached site plan, Key Properties does not intend to impact Feature A or any of the wetlands adjacent to it. Because Key Properties does not plan any impacts to Feature A, no Pre-construction Notification to the USACE or the NC DWR is required.

If you have any further questions please feel free to call me at 919.917.6345.

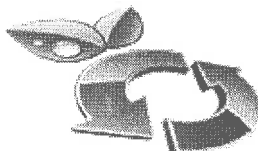
Sincerely,

James Dasher

Cc: Chad Huffine, Engineer, LEADS Group PA
NC DWM - Permitting



100 0 100 200 300 400 ft



Piedmont
ENVIRONMENTAL
ASSOCIATES, PA

Landfill Engineering And Design – Size Information:

Landfill Volume Information:

Approximate Total Land Fill Volume Proposed: 533,000 cy.

Volume in North Cell: 200,000 cy.

Volume in South Cell: 333,000 cy.

Land Area Information:

Total Acres in Landfill property: 47.41 Acres

Area in Proposed Cells: 11.89 Acres

Area in North Cell: 5.7Acres

Area in South Cell: 5.59 Acres

Final Design Information and Documents

Landfill Site Documentation for permitting purposes:

At the time of this report: 9-30-2013:

The facility plans to handle on the order of 400 cubic yards of debris material per day with provisions to add equipment through rental equipment agreements in place and the ability to activate additional personnel in times of specific increases or emergencies.

No facility operations or practices are located within the 100-year floodplain per FEMA panel: 37100889700J and 3710889600J September 6, 2006. All operations are proposed outside of the Boyds Creek Tributary 2 mapped flood areas.

No portion of the facility may be located in any wetland as defined in the Clean Water Act, Section 404(b) All operations are proposed outside of buffered or stream buffered areas.

No facility operations shall involve the taking any endangered or threatened species of plants, fish or wildlife. A review of the facility area and the vicinity of the site did not reveal the presence of any species on lists maintained by the North Carolina Natural Heritage Program.

No facility operations shall involve damage or destruction to any archaeological or historical sites. A review of the facility area and the vicinity of the site did not reveal the presence of any such sites on lists maintained by the North Carolina Natural Heritage Program.

No facility operations shall involve damage or destruction to any state parks, recreation or scenic areas or areas in the State nature or historic preservation sites. A review of the facility area and the vicinity of the site did not reveal the presence of any of these features on lists maintained by the North Carolina Natural Heritage Program.

Adequate and suitable cover soils shall be available for cover over the landfill area. Cover soils shall originate from excavated soils on site or from soil material imported into the site.

Upon the completion of the land-filling process and the establishment of permanent cover, the areas will be left for nature area.

Current operations on the site include an existing field office staffed by two daytime employees, mulching equipment, and two landfill areas that comprise a total of 3.96 ac ± on the property. Land clearing debris imported to the site includes brush, limbs, stumps, leaves, grass clippings, yard trash, etc. and is processed into mulch using a tub grinder. Usable mulch is then exported from the site to other locations for further processing. Ultimately, the finished product is distributed to retail lots and sold to commercial landscaping or the nursery businesses with the remaining items disposed of in the landfill.

The proposed expansion of the Key Properties facility will continue with the same operations as those which currently exist and as described above. No new buildings or other utilities are being proposed.

**Key Properties Landfill
Operations and Maintenance (O&M)
Permitting and Property Documents**

October 15, 2013

**Key Properties
Land Clearing and Inert Debris (LCID) Landfill
2380 Sandy Cross Road
Burlington, North Carolina 27217**

Preface

Key Properties Operation and Maintenance Manual Prepared for: Key Properties Landfill October 15, 2013

This document was prepared by: The L.E.A.D.S. Group, PA
Land Engineering and Development Services
505 East Davis Street, Burlington North Carolina, 27215
336-227-8724

LCID Landfill Regulatory Information:
NCDENR North Carolina Department of Environment and Natural Resources
Division of Waste Management

Raleigh Office

Raleigh Address: 217 W. Jones Street
1646 Mail Service Center
Raleigh, NC 27699-1646

Winston Salem Regional Office

Winston Salem Address: 585 Waughtown Street
Winston Salem, NC 27107-2275

Site Information:

Key Properties LCID Landfill
2380 Sandy Cross Road
Burlington, NC 27217

Key Properties Landfill Document Guidance

Package Contents

- Permit Page
- Audience
- Landfill Definition and Terminology
- Table of Contents (for O&M Plan)
- Operations and Maintenance Plan
- Final Design Information and Documents
- Property and Legal Documents
- Post-construction Documents
- Hands-on Operating Practices
- Equipment Manufacturers Vendor Information
- Emergency Contact Page

Permit Page

Alamance County

PLANNING DEPARTMENT
217 College Street, Suite C
Graham, North Carolina 27253
Tel. (336) 570-4053

JASON S. MARTIN, MPA
Planning Manager

August 19, 2013

Chad Huffine, P.E.
505 E. Davis Street
Burlington, NC 27215

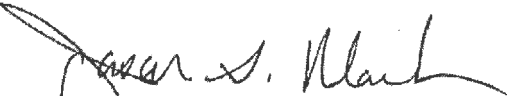
Re: Key Properties, LCID Landfill

Dear Mr. Huffine:

On August 9, 2013, the Planning Department completed its review of the Nonconformance Permit Application from Key Properties for the existing LCID Landfill located on Sandy Cross Road. The Nonconformance Permit has been approved and is attached to this letter for your reference. No additional action is required from Key Properties for Alamance County at this time. Please be advised that your client will need to renew their permit in three (3) years.

Should you have any additional questions, please feel free to call me directly at 336-570-4052.

Sincerely,



Jason S. Martin
Planning Manager



**ALAMANCE COUNTY
PLANNING DEPARTMENT**
217 College St. Suite A, Graham, NC 27253-2865
Phone: (336) 570-4059 Fax: (336) 570-6310

Date: 8/9/2013 Page: 1 of 1

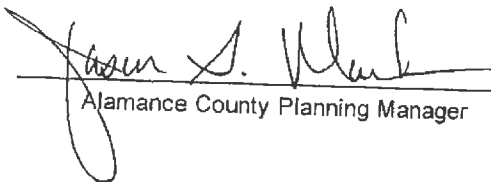
Heavy Industrial Development - Nonconformance Permit

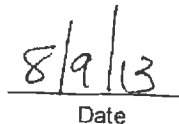
Date:	8/9/2013	Permit #:	NCP-2-2013
Project Name:	KEY PROPERTIES	Township Name:	PLEASANT GROVE
Contact Person:	CHAD HUFFINE	Parcel I.D. Number:	8897303881
Contact Address:	505 EAST DAVIS ST BURLINGTON, NC 27217	Acreage of Lot:	29.07
Contact Phone:	(336) 227-8724	Site Plan Submitted:	YES

Land Use Information

1. **Classification:** CLASS I
Category: INERT DEBRIS LANDFILLS

Operators of a business with a nonconformance permit should consult with the Alamance County Planning Department prior to any expansion to ensure ordinance compliance.


Alamance County Planning Manager


Date

Audience

This O&M manual is intended for day-to-day use by management, regulatory and on-site operations personnel that are seeking information for the following:

- Scope and content of facility operations
- Directions for landfill operating personnel
- Permitting and site and design information

Landfill Definitions and Terminology:

Brownfield Development

EPA defines a brownfield as an "abandoned, idled, or under-used industrial and commercial facility where expansion or redevelopment is complicated by real or perceived environmental contamination."

Capping

This is the process of placing the final soil cover material on the landfill.

Cell

Landfills are constructed in phases (cells) that adjoin one another, separated by a berm to contain leachate within an area. The entire permitted area will be divided into separate cells for construction.

Closed Site (Landfill)

A landfill that has reached its permitted waste capacity and has been permanently capped and certified as closed by the appropriate state regulatory agency.

Closure

The period of time after a landfill has reached its permitted capacity but before it has received certification of closure from a state regulatory agency. During the closure period, certain activities must be performed to comply with environmental and other regulations (e.g. capping, landscaping, etc.).

Construction and Demolition (C&D)

A waste stream that is primarily received from construction sites. Some examples of C&D waste include, but are not limited to, concrete, rebar, wood, paneling, linoleum, and carpet.

Container

Any receptacle used to accumulate waste from residential, commercial and industrial sites. Containers vary in size and type according to the needs of the customer or restrictions of the community. Containers are also referred to as dumpsters.

Daily Cover

The material used to cover the working face of a landfill at the close of each day.

Disposal Fee

A fee charged for the amount of waste disposed of by customers at a landfill. (also see Tipping Fee)

Dumpster

A generic term use for front-load and rear-load containers.

Gatehouse

A gatehouse is found at a landfill or a transfer station. All incoming vehicles must stop to be processed and weighed, and all outgoing vehicles must stop to be weighed and receive a disposal ticket for charges. See also Scale House.

Greenfield Development

A tract of undeveloped property purchased with the intention of obtaining necessary permitting on which to operate a landfill. This would not include expansions to existing landfills.

Hazardous Waste

Waste that is designated such by regulatory agencies either because it has elevated levels of hazardous chemicals or materials, because it exhibits a potentially dangerous characteristic (e.g., ignitable, corrosive, etc.) or because the material belongs to a general family of materials which have been deemed hazardous by regulatory agencies.

Landfill

A modern engineered way to deposit waste into the ground and still protect the environment. As the landfill is built, the base of the cell is lined with a protective layer and materials are installed to monitor and collect leachate and gas emissions. As waste is deposited over the liner, it is compacted with heavy machinery in a effort to get the maximum amount of waste in an area. At the end of the day the waste is covered with soil or special fabric cover (unless specifically exempted by state regulators.) Once the lined area is completely full, it is covered with an engineer-designed cap. Regulations mandate the periodic testing of ground water, leachate levels and gas emissions. Landfills are accounted for a separate line of business within the WM organization. Different types of landfills include MSW, C&D, Asbestos Monofil, Ash Monofil, Special Waste and Hazardous Waste.

Landfill, Construction & Demolition (C&D)

A landfill that has been permitted by a state regulatory agency to accept Construction and Demolition waste. This type of landfill must have properties and design features specific to this type of land filling that have been established by the state regulatory agency.

Landfill, Hazardous Waste

Wastes that exhibit certain characteristics may be regulated by RCRA. A waste may be considered hazardous if it is ignitable (i.e., burns readily), corrosive, or reactive (e.g., explosive). Waste may also be considered hazardous if it contains certain amounts of toxic chemicals. In addition to these characteristic wastes, EPA has also developed a list of over 500 specific hazardous wastes. Hazardous waste takes many physical forms and may be solid, semi-solid, or even liquid. A hazardous waste landfill is built to specific regulations to allow for the disposal of waste designated by regulatory agencies as being hazardous. These regulations are far more stringent than for an MSW landfill. WM has 5 secure hazardous waste landfills permitted under RCRA. These sites all operate under the name "Chemical Waste Management" (CWM).

Landfill, Land Clearing and Inert Debris (LCID)

A landfill that has been permitted by a state regulatory agency to accept land clearing and inert debris waste. This type of land filling must have properties and design features specific to this type of landfill that has been established by the state regulatory agency.

Landfill, Municipal Solid Waste (MSW)

A landfill that has been permitted by a state regulatory agency to accept municipal solid waste. This type of land filling must have properties and design features specific to this type of landfill that has been established by the state regulatory agency.

Landfill footprint

Parcels of land that are designated and permitted to perform land filling activities. This would include the entrance, staging area, buffer area and the area that will accept waste for disposal (the waste footprint area).

Leachate

Liquids that have come in contact with waste. Leachate accumulates in the waste footprint of the landfill. Leachate levels within the landfill must be monitored and cannot exceed state regulatory agency established levels. Depending upon the site, there are different ways to handle collected leachate. Some of these include: 1. Collecting it in tanks and periodically transporting it off-site for treatment and disposal; 2. Collecting it in evaporation ponds which allow it to naturally evaporate into the air; 3. Discharging it into the sewer system; 4. Re-circulating it back into the landfill to aid in the biodegradation of the waste.

Liner

A clay and/or synthetic protective layer that is placed on both the bottom and top of a landfill.

Materials Recovery Facility (MRF)

Line of business where recyclable material is processed, separated, and sold. This is a facility where recyclable materials are sorted and processed for sale. This process includes separating recyclable materials (manually or by machine) according to type, and baling or otherwise preparing the separated material for sale. Operating costs and revenues for MRF's are accounted for as a separate line of business.

Methane

A gas byproduct generated through natural decomposition of solid waste in landfills. This gas is monitored to maintain state regulatory agency levels. Accumulated gas is either burned off using a flare or is converted to energy by use of a gas plant.

Methane Gas Plant

A plant where methane gas (generated from decomposing solid waste) is collected and transported to a gas-processing facility at the landfill site. Once processed, the methane gas is sold directly to industrial users as a fuel to power electricity generators.

Municipal Solid Waste (MSW)

"Regular" garbage from non-industrial sources, such as residential homes, restaurants, retail centers, and office buildings. Typical MSW includes paper, discarded food items, and other general discards. Green waste is considered MSW and includes yard clippings, leaves, trees, etc.

Post-closure

The period of time after a landfill is certified as closed by a state regulatory agency, until WM has no further monitoring responsibility. Environmental and other regulations require the owner of the closed landfill to continue monitoring activities and general maintenance of the site for a specific period of time (generally 30 years).

RCRA (Resource Conservation and Recovery Act)

RCRA is the Resource Conservation and Recovery Act, which was enacted by Congress in 1976. RCRA's primary goals are to protect human health and the environment from the potential hazards of waste disposal, to conserve energy and natural resources, to reduce the amount of waste generated, and to ensure that wastes are managed in an environmentally sound manner.

Residential Customers

A segment of the collection business that is made up of single and multi-family dwellings.

Route

A specifically directed course that a driver follows that has been designed for efficiency and to provide optimal service to customers.

Scale House

A scale house can be found at either a landfill or a transfer station. It is the office, located a short distance from the main entrance, where all incoming vehicles must stop to be weighed or measured and receive a disposal ticket.

Solid Waste

"Regular" garbage from non-industrial sources, such as residential homes, restaurants, retail centers, and office buildings. Typical MSW includes paper, discarded food items, and other general discards. Green waste is considered MSW and includes yard clippings, leaves, trees, etc.

Special Waste

Any waste that requires special handling. Special waste is non-hazardous waste generally from an industrial generator and must be profiled to ensure that it does not contain elevated levels of potentially hazardous chemicals or materials.

Sump

The lowest area of a landfill into which leachate drains.

Tipping fee

A fee paid by anyone disposing of waste at a landfill. (also see Disposal Fee)

Transfer Station

A facility that consists of a large pad where residential and commercial collection vehicles empty the contents of their trucks. Other machinery (e.g. bulldozers) is then used to push the garbage into long-haul trailers for transport to disposal facilities.

Waste Stream

Specific types of waste found in customer's disposal (trash, cardboard, aluminum, metal, etc.) or a more broad definition of disposal type. (e.g. MSW, C&D, Hazardous, etc.)

Working Face

The section of the landfill where waste is being actively placed by disposal vehicles.

Table of Contents - Operation and Maintenance (O&M)

Section :	Subject
1:	• Operations Plan
2:	• General operations
3:	• Disposal operations -- waste handling and work area management
4:	• Special waste management
5:	• Ancillary operations
6:	• Inspection and maintenance
7:	• Facility operating record
8:	• Contingency
9:	• Post-closure operations

1 Operations Plan

The Key Properties LCID Land Clearing and Inert Debris Landfill facility shall only accept the following materials for which it is approved:

Stumps, rock, brush, concrete, dirt, asphalt, trees, bricks and other land clearing and inert debris

The facility will normally accept up to 400 cubic yards of debris materials per day during daily operating hours from the following service areas:

Counties of: Alamance, Caswell, Chatham, Durham, Forsythe, Guilford, Orange, Person, Randolph, Rockingham, and Wake.

Adequate signage shall be located at the facility Entrance showing:

Emergency Contact Name and Number

Facility Permit Number (if permitted)

The imported waste material shall be restricted to the smallest area feasible and compacted as densely as practical with available on-site equipment into cells during each working day.

Adequate soil cover, shall be applied monthly or when the active area reaches one acre in size, whichever occurs first. Additionally, after 120 calendar days after the completion of any phase of disposal operations, or upon revocation of a permit, the disposal area shall be covered with a minimum of one foot of suitable soil cover sloped to allow runoff in a controlled manner.

Note: The Division (NCDENR) may require further action in order to correct any condition which is or may become injurious to the public health, or a nuisance to the community.

The facility shall follow the approved erosion control plan and shall at all times provide and maintain adequate erosion control measures to prevent silt from leaving the site and to prevent excessive on-site erosion.

Provisions for a ground cover sufficient to restrain erosion shall be accomplished within 30 working days or 120 calendar days upon the completion of any phase of landfill development.

No open burning of solid waste is permitted at this facility.

The facility gate shall remain open during operating hours and closed / secured during hours when the facility is closed. Scavenging and removal of Landfill material is prohibited.

Hours of operation shall be seasonally and conditionally dependant. Facility management will set hours of operation as needed to accommodate normal daily volume and when necessary emergency volume.

2 General Operations

Daily opening and closing procedures:

Upon entry into and exiting from the facility at the open and close of each business day, personnel will check in and out with the operator to determine their duties, and begin or end operational processes.

Ticketing and Material Acceptance Process:

Upon entry into the facility, haulers are stopped at the office / gate house and each load is ticketed.

Attendant inspects the load and determines the processing route, is the load for recycle, land filling, soil only or rejected for unsuitable materials.

Unsuitable material loads are to be turned away.

The attendant shall direct all haulers of acceptable materials to the appropriate cell or section of the landfill currently being worked.

Material Placement Process:

The hauler proceeds to the onsite operator who provides directions as to the placement of the hauler's contents, and directs the hauler in his exit of the work area.

The operator works the material into the landfill according to the **management of working area procedures** making sure all haulers are out of the area as work continues.

End of Day Process:

Upon completion of the daily operations, the operator finishes the surface being worked, providing positive drainage and cover sufficient to prevent ponding of possible rain water and reduce the potential for erosion within the cell. The operator inspects the work area followed by a survey of the facility to verify that all areas are clear and that no haulers remain on site.

Following the work area inspection and facility survey, the facility is closed for the day. Equipment is fueled, serviced, parked and secured for the end of the working day as needed. The gate is secured and operations cease for the day.

3 Disposal Operations

Waste Handling and Work Area Management

Material Acceptance, Ticketing Process and Material Placement:

Upon entry into the facility haulers are stopped at the office / gate house and the attendant inspects the load and determines the processing route, is load for recycle, land filling, soil only or rejected for unsuitable materials.

Suitable Materials are:

Stumps, rock, brush, concrete, dirt, asphalt, trees, bricks and other land clearing and inert debris

All other materials not listed above are considered unsuitable for This Facility and shall be turned away at the office / gate house.

Unsuitable material loads are to be turned away.

Upon completion of the inspection, the load is ticketed for accounting purposes. Hauler and attendant receive their respective ticket copies and exchange any directional or procedural information at this time before access into the work area is granted to the hauler.

The attendant shall then direct all haulers of acceptable materials to the appropriate cell or section of the landfill currently being worked. The hauler is directed by the attendant to look out for other haulers, yield to slower moving equipment and to look for the onsite operator as they proceed into and approach the work area.

The hauler proceeds on to the onsite operator over the prepared all-weather access route, who then provides directions to the hauler as to the placement of the hauler's contents.

The hauler off loads the debris material as directed by the operator.

The onsite operator directs the hauler to exit the work area, observing the haulers movements as they prepare to leave the work area.

Once the hauler is clear of the work area, the operator checks for additional haulers in the queue, directing them as needed or ensuring the area is clear of haulers and ready to be worked.

If no other haulers are awaiting off-loading instructions, the operator works the material into the landfill in thin compactable lifts while ensuring all haulers are out of the area as placement and compaction work continue.

The operator uses good technique and care distributing the loads into the landfill, efficiently working areas manageable for the scale of the equipment while continuing to accommodate incoming haulers. The operator shall notify management or ask for additional equipment to

assist in the material placement depending upon the rate of material volume entering the facility at any given time.

The onsite operator continues and repeats this process for the duration of the working day.

Once haulers exit and are clear of the work area, they are directed to inspect their vehicles for debris prior exiting the facility gate.

Upon completion of the daily operations, the operator finishes the surface being worked, providing positive drainage and cover sufficient to prevent ponding of possible rain water and reduce to potential for erosion within the cell. The operator inspects the work area followed by a survey of the facility to verify that all areas are clear and that no haulers remain on site.

Following the work area inspection and facility survey, the facility is closed for the day. Equipment is fueled, serviced, parked and secured for the end of the working day as needed. The gate is secured and operations cease for the day.

Inclement Weather Operations

During periods of inclement weather, the operator shall determine the facility's ability to handle intake of waste materials, to increase or reduce staff and equipment needed for the day or to close operations for the day. The operator will contact facility patrons and employees for updates as needed.

The operator will determine the suitability of on-site haul roads, determine alternate disposal routes or areas should they be required, or otherwise adapt to the needs of the day given the weather and facility.

The operator will may provisions for the following work day notifying patrons and employees of the facility status as best as practical given the weather conditions and next day forecast.

Extended Dry Periods

During periods of consecutive dry weather days, drought or windy weather, the operator shall determine the facility's ability to handle intake of waste materials, to increase or reduce staff and equipment needed for the day or to close operations for the day. The operator will ensure adequate water supply from either onsite means or trucks to properly control dust, provide for compaction moisture in cover soils and remain aware of potential fire and other hazards for the period.

Emergency Capacity Provision:

The facility plans to handle on the order of 400 cubic yards of debris material per day with provisions to add equipment through rental equipment agreements in place and the ability to activate additional personnel in times of specific increases or emergencies.

The facility currently uses two 1300 series Morbark tub grinders. Additional material handlers can be added if needed in times of specific increases or emergencies at the operator's discretion as needed.

4 Special Waste Management

Only materials approved for disposal by the permitting documents are handled at this facility.

No other materials are accepted.

No liquid waste materials are handled at this facility.

No materials considered hazardous by The Department are handled at this facility.

No materials considered Municipal Solid Waste are handled at this facility.

Other examples of special waste include but are not limited to, the following specific items:

- asbestos
- treated infectious waste
- large animal carcasses
- hazardous-substance contaminated cleanup materials
- septage
- sewage sludges and grit
- industrial waste sludges
- industrial solid wastes
- ash

All special or unacceptable materials shall be turned away at the landfill entrance.

5 Ancillary Operations

Recycling

Materials hauled into the facility that appear suitable for use as recyclable materials shall be directed by the operator to off load at predetermined locations within the facility for the given material type. These materials will be processed immediately or piled, windrowed or otherwise stored for recycle as needed.

Possible recyclable materials that may enter the facility include:

Clean stone

Clean soil

Roadway or road base type materials, stone concrete or other similar materials

Dedicated tree and brush material loads

Work or staging areas shall be designated by the operator to accommodate these material types at locations that do not adversely affect the working operations of the landfill and are outside the areas needed logistically for daily operations.

Operations Equipment

The facility shall acquire and maintain adequate operations equipment and identify any operating restrictions, quantity and purpose. The facility shall maintain provisions for additional or standby equipment for use in the event of volume increases, breakdown or maintenance of primary Equipment or other circumstances such as inclement weather.

Truck or equipment wash-down, operation equipment maintenance

Truck and equipment wash-downs will be carried out at the direction of the operator. Operations equipment and trucks shall be maintained in good working condition at the designated area on site at the direction of the operator.

No washing of the equipment shall occur on the working face or slopes of any landfill cells.

6 Inspection and Maintenance

The operator or his designated employee shall inspect and maintain all facility components and items which require periodic inspection or maintenance. The following items shall be maintained regularly, within permitting requirements or inspected as needed by the facility personnel:

- Facility access
- Haul roads
- Office areas and grounds
- Staging areas, equipment service and storage areas
- Landfill side-slope vegetation and seeding
- Working face areas
- Cover soil piles
- Recycle areas
- Perimeter fencing, erosion and sedimentation control measures
- Safety equipment and fire extinguishers
- Office facilities
- Signage
- Facility records

Adequate security shall be maintained around the facility to prevent access to the facility except when an operator is on duty. An attendant shall be on duty at all times while the landfill is open for public use to assure compliance with these operational requirements and to prevent the acceptance of unauthorized waste. The facility is accessible through the main gate for all operations which shall remain open and attended during business hours and locked after hours.

Roads throughout the facility shall be constructed and adequately maintained to provide all weather access to service the facility.

Surface water shall be diverted from the working face / area and shall not be impounded over the waste materials. Furthermore, solid waste shall not be disposed of in water.

Upon completion of the daily operations, the operator finishes the surface being worked, providing positive drainage and cover sufficient to reduce the potential for ponding of possible rain water and therefore reduce the potential for erosion within the cell. The operator inspects the work area followed by a visual survey of the facility to verify that all areas are clear and that no haulers remain on site.

Following the work area inspection and facility survey, the facility is closed for the day. Equipment is fueled, serviced, parked and secured for the end of the working day as needed. The gate is secured and operations cease for the day.

7 Facility Operating Records

Regulatory:

Establish and maintain the facility operating record as required by the conditions of the approved operating permit.

Location:

The Facility is located at 2380 Sandy Cross Road, Burlington North Carolina.

Include the following information in the Operating Record:

Current Waste Sources for the reporting period.

Any change in required location restrictions such as amendments to floodplains, zones or unstable areas).

Inspection records, training procedures and notification procedures included in the facility's plans and permitting documents.

Documentation that the landfill meets and is meeting the design criteria.

Any demonstration, certification or finding for monitoring, testing, or analytical data pertaining to rainfall amounts, groundwater monitoring, erosion control measure inspection reports.

Closure and post-closure care plans.

Any cost estimates and financial assurance / business and operational documentation.

8 Contingency

- **On-site personal injuries**

The facility will alert the area emergency medical and fire departments by calling **911**. Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

- **Surface water or groundwater contamination**

The facility will maintain not less than four (4) feet of separation from the landfill floor to the seasonal high water table, avoid disposing of debris in water and will maintain positive drainage within the working areas.

Leachate shall be managed on site through the use of current best management practices.

Should the Division (NCDENR) deem it necessary, ground water monitoring, surface water monitoring or both, may be required as provided for under Rules .0601 and .0602 of Subchapter 15A NCAC 13B .0566

- **Landfill gas migration and associated fire and explosion hazards**

At no time shall the concentration of explosive gases generated by the facility exceed;
Twenty-five percent of the lower explosive limit for the gases in the facility
The lower explosive limit for the gases at the property boundary

- **Liquid spills**

The facility will alert the area fire departments by calling **911**. Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

- **Fires: Equipment fires, "hot load" fires, disposal site fires, building fires**

The operator will remove any additional flammable material, if practical, from the affected area.

The facility will alert the area fire departments by calling **911**. Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

The operator will secure an access route to the affected area for the fire department and assist in directing the responders to the affected area as needed.

Equipment Fires:

The operator will remove any additional flammable material, if practical, from the affected area.

The facility will alert the area fire departments by calling **911**.

Hot Load Fires:

Landfills fires can be started by "hot loads," spontaneous combustion, unknown combustible materials subjected to sparks, and by equipment fires. On-site personnel must always be on the lookout for "hot loads" and flammable materials. Subsurface fires resulting from spontaneous combustion can be difficult to locate and extinguish. Extinguish near-surface fires by covering the area with dirt. If the fire is deep, excavating the burning material may be necessary. Follow appropriate personnel safety precautions in all of these situations.

Inaccessible fires require a different strategy. Extinguish these fires by cooling the burning mass in-place, or reduce available oxygen by closing cracks and fissures.

The facility will alert the area fire departments by calling **911**.

Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

Disposal Site Fires:

The operator will remove any additional flammable material, if practical, from the affected area.

The facility will alert the area fire departments by calling **911**.

Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

The operator will secure an access route to the affected area for the fire department and assist in directing the responders to the affected area as needed.

Building Fires:

The facility will alert the area fire departments by calling **911**.

Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

• **Explosions, accidents, and other emergencies**

The facility will alert the area fire departments by calling **911**.

Pleasant Grove, Faucette, and Haw River fire companies are aware of the facility, operations and its location and point of access.

Area Notification Emergency Contact List:

EMERGENCY:	911
CITY OF GRAHAM:	336-570-6700
TOWN OF GREEN LEVEL:	336-578-3443
TOWN OF HAW RIVER:	336-578-0784
CITY OF MEBANE:	919-563-5901

9 Post-Closure Operations

Upon Completion of land filing operations or build out, the landfill use is proposed as nature use or woodland and nature park use areas.

Final Design Information and Documents

Landfill Site Documentation for permitting purposes:

At the time of this report: 9-30-2013:

The facility plans to handle on the order of 400 cubic yards of debris material per day with provisions to add equipment through rental equipment agreements in place and the ability to activate additional personnel in times of specific increases or emergencies.

No facility operations or practices are located within the 100-year floodplain per FEMA panel: 37100889700J and 3710889600J September 6, 2006. All operations are proposed outside of the Boyds Creek Tributary 2 mapped flood areas.

No portion of the facility may be located in any wetland as defined in the Clean Water Act, Section 404(b)

No facility operations shall involve the taking any endangered or threatened species of plants, fish or wildlife. A review of the facility area and the vicinity of the site did not reveal the presence of any species on lists maintained by the North Carolina Natural Heritage Program.

No facility operations shall involve damage or destruction to any archaeological or historical sites. A review of the facility area and the vicinity of the site did not reveal the presence of any such sites on lists maintained by the North Carolina Natural Heritage Program.

No facility operations shall involve damage or destruction to any state parks, recreation or scenic areas or areas in the State nature or historic preservation sites. A review of the facility area and the vicinity of the site did not reveal the presence of any of these features on lists maintained by the North Carolina Natural Heritage Program.

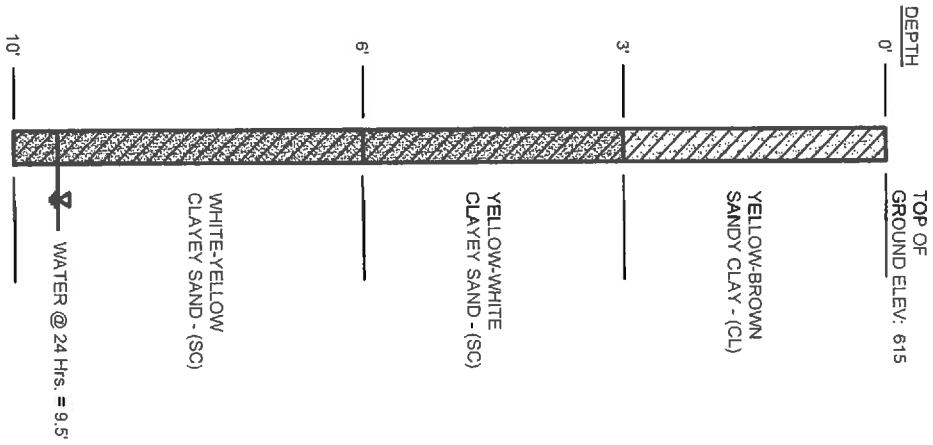
Adequate and suitable cover soils shall be available for cover over the landfill area. Cover soils shall originate from excavated soils on site or from soil material imported into the site.

Upon the completion of the land-filling process and the establishment of permanent cover, the areas will be left for nature area.

Current operations on the site include an existing field office staffed by two daytime employees, mulching equipment, and two landfill areas that comprise a total of 3.96 ac ± on the property. Land clearing debris imported to the site includes brush, limbs, stumps, leaves, grass clippings, yard trash, etc. and is processed into mulch using a tub grinder. Usable mulch is then exported from the site to other locations for further processing. Ultimately, the finished product is distributed to retail lots and sold to commercial landscaping or the nursery businesses with the remaining items disposed of in the landfill.

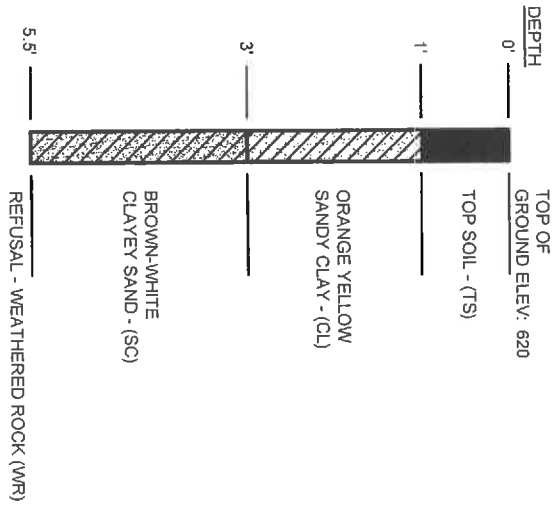
The proposed expansion of the Key Properties facility will continue with the same operations as those which currently exist and as described above. No new buildings or other utilities are being proposed.

TP #1



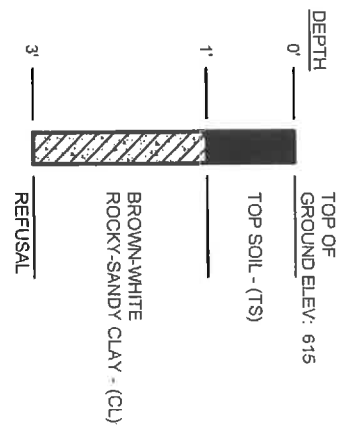
TP-1
 WATER LEVELS
 TIME OF EXCAVATION: 4-16-2013, 9:10 AM - DRY
 @ 24 - HOUR PERIOD: WATER AT 9.5'

TP #2

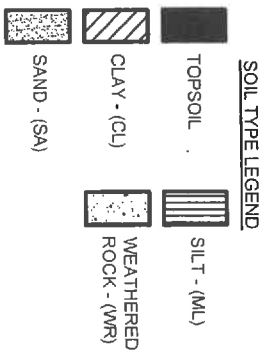


TP-2
 WATER LEVELS
 TIME OF EXCAVATION: 4-16-2013, 9:45 AM - DRY
 @ 24 - HOUR PERIOD: DRY

TP #3



TP-3
 WATER LEVELS
 TIME OF EXCAVATION: 4-16-2013, 10:00 AM - DRY
 @ 24 - HOUR PERIOD: DRY



PROJECT: LCID Landfill Layout
 2442 Sandy Cross Rd
 Burlington, NC 27217

PLAN: Test Pit Logs - 1 to 3

7-25-2013
 Date: NTS
 Scale:

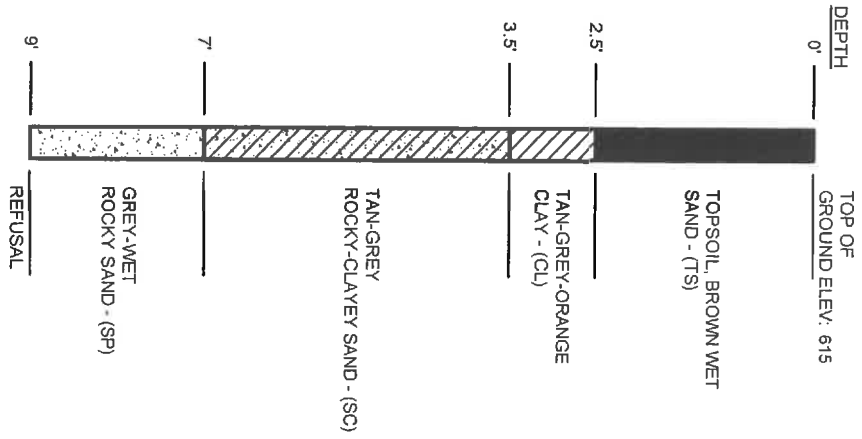
1-13-1006
 Project: 1-13-1006
 Project Number:

LCID LANDFILL

Prepared By: The L.E.A.D.S. Group, P.A.
 Land Engineering And Development Services

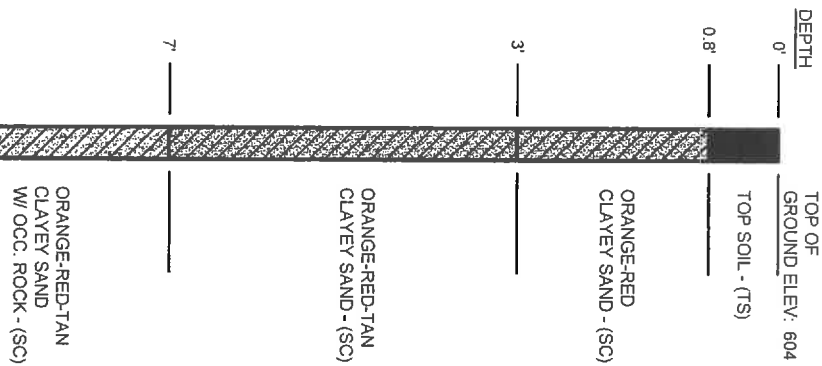
358 EAST DAVIS STREET
 WASHINGTON, NC 27155
 phone: (336) 322-6274
 fax: (336) 322-9847
 C19026

TP #4



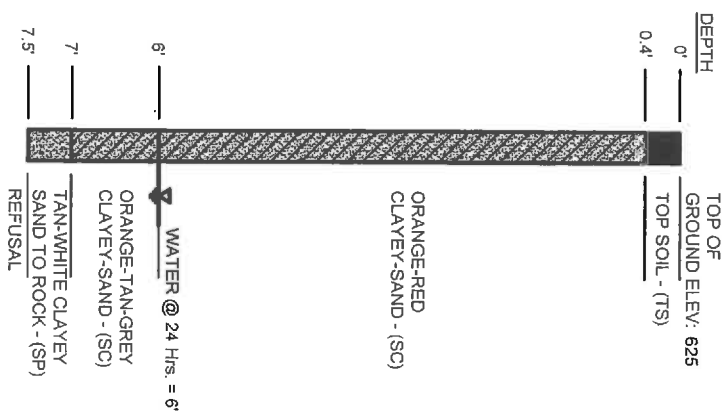
TP-4
 WATER LEVELS
 TIME OF EXCAVATION: 4-16-2013, 10:15 AM - DRY
 @ 24 - HOUR PERIOD: DRY

TP #5



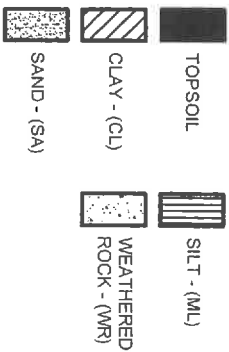
TP-5
 WATER LEVELS
 TIME OF EXCAVATION: 4-16-2013, 10:50 AM - DRY
 @ 24 - HOUR PERIOD: DRY

TP #6



TP-6
 WATER LEVELS
 TIME OF EXCAVATION: 4-16-2013, 11:30 AM - DRY
 @ 24 - HOUR PERIOD: WATER AT 6'

SOIL TYPE LEGEND



PROJECT: LCID Landfill Layout
 2442 Sandy Cross Rd
 Burlington, NC 27217

PLAN: Test Pit Logs - 4 to 6

7-25-2013

Date:

1-13-1006

Project:

NTS

Scale:

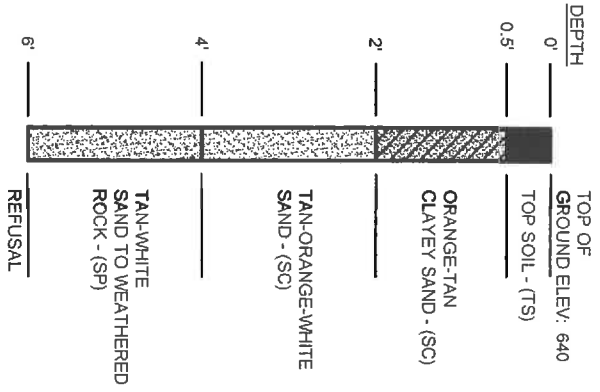
Proposal Number:

LCID LANDFILL

Prepared By:
 THE L.E.A.D.S. GROUP, P.A.
 Land Engineering And Development Services

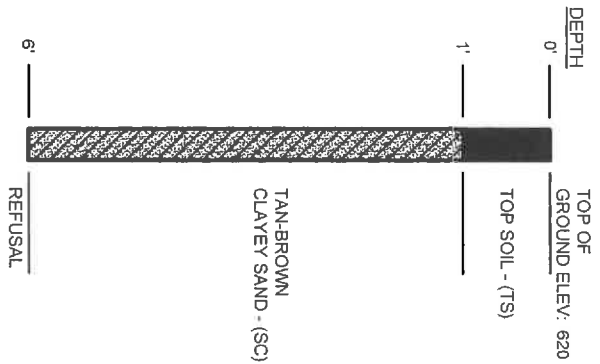
307 EAST DAVIS STREET
 BURLINGTON, NC 27215
 phone: (336) 227-8721
 fax: (336) 227-8917
 C1039

TP #7



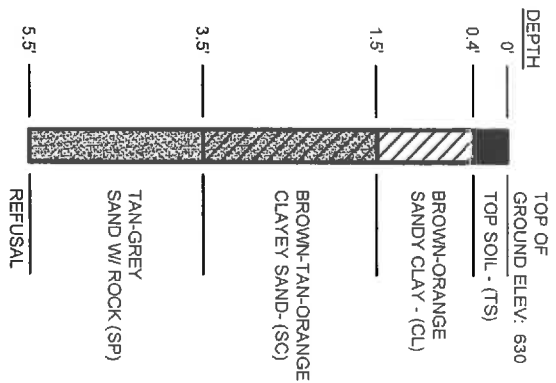
TP-7
WATER LEVELS
TIME OF EXCAVATION: 4-16-2013, 12:20 PM - DRY
@ 24 - HOUR PERIOD: DRY

TP #8

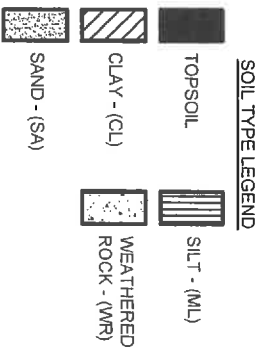


TP-8
WATER LEVELS
TIME OF EXCAVATION: 4-17-2013 - DRY
@ 24 - HOUR PERIOD: DRY

TP #9



TP-9
WATER LEVELS
TIME OF EXCAVATION: 4-17-2013 PM - DRY
@ 24 - HOUR PERIOD: DRY



PROJECT: LCID Landfill Layout
2442 Sandy Cross Rd
Burlington, NC 27217

PLAN: Test Pit Logs - 7 to 9

7-25-2013
Date: NTS
Scale:

1-13-1006
Project: Project Number:

LCID LANDFILL

Prepared By: THE L.E.A.D.S. GROUP, P.A.
Land Engineering And Development Services

503 EAST DAYTON STREET
BURLINGTON, NC 27215
phone (336) 227-8724
fax (336) 222-9917
C0199

Property and Legal Documents

Alamance County



Parcel ID	8897303881	Year Built	
Old Tax #	13-18-32	Building SqFt	
Owner1	HANOVER ROAD PROPERTIES INC	Plat Book Page	57 75
Owner2	C/O ROGER Q MANESS & PRISCILLA	Deed Book Page	2035 209
Billing Address	4047 CATES LOOP RD	Sales Date	Wednesday, February 11, 2004
City State Zip	BURLINGTON NC 27217	Sales Price	\$240,000
Property Address	SANDY CROSS RD	Bedrooms	
Deeded Acres	17.9	Full Bath	
Market Land Value	\$32,578	Half Bath	
Market Building Value	\$0	Stories	
Market Total Value	\$32,578	Grade	

THIS IS NOT A LEGAL DOCUMENT

DISCLAIMER: ALAMANCE COUNTY shall assume no liability for any errors, omissions, or inaccuracies in the information provided regardless of how caused; or any decision made or action taken or not taken by user in reliance upon any information or data furnished hereunder. The user knowingly waives any and all claims for damages against any and all of the entities comprising the *Alamance County GIS System* that may arise from the mapping data.

Map Scale
1 inch = 815 feet

SURVEYOR'S CERTIFICATION

I, J. Leo Boswell, certify that this plat was drawn under my supervision from an actual survey made under my supervision (and description recorded in Book 2035, Page 2035), that the boundaries and surveyed are clearly indicated on maps from information furnished to me that these 67 Pages 178, but the rate of provision as indicated in 100000 that this plat was prepared by measurement only 0.5 07-20 not measured, but the survey is of another nature, such as the transmission of utility poles, a measurement device, or other exception to the standard of measurement.

Witness my original signature, registration number and seal on this 9th day of September 2006
J. Leo Boswell
Professional Land Surveyor - L-3177



CERTIFICATE OF EXCEPTION

I (We) hereby certify that I am (we are) the Owner(s) of the property shown and described herein, which was conveyed to me (us) by deed recorded in Book 2035, Page 2035 and that the boundaries of the property shown on this plat are the same as the boundaries shown on the plat of the same property recorded in Book 2035, Page 2035.

Jerry Lee & Nancy M. Warren
D.B. 419, Pg. 184
Date: 9/29/06
Signature: [Signature]
Date: 10/1/06
Signature: [Signature]

State of North Carolina

County of Alamance
I, Susan L. Martin, Register of Deeds, do hereby certify that the copy or plat to which this certificate is attached meets all statutory requirements of recording.

Notes:
1) This plat was prepared by this firm during the course of this survey.
2) The property shown herein is subject to all rights of record affecting same.
3) This plat is not to be construed as to the existence or location of any local, state, underground, or other utility lines or structures across the property. Any underground utility or structure shown herein has been located from public records and available information.
4) The interior boundaries of this property were made by this firm during the course of this survey.
5) Areas are indicated by measurement.
6) The boundary measurements were found within 200' of the subject property.

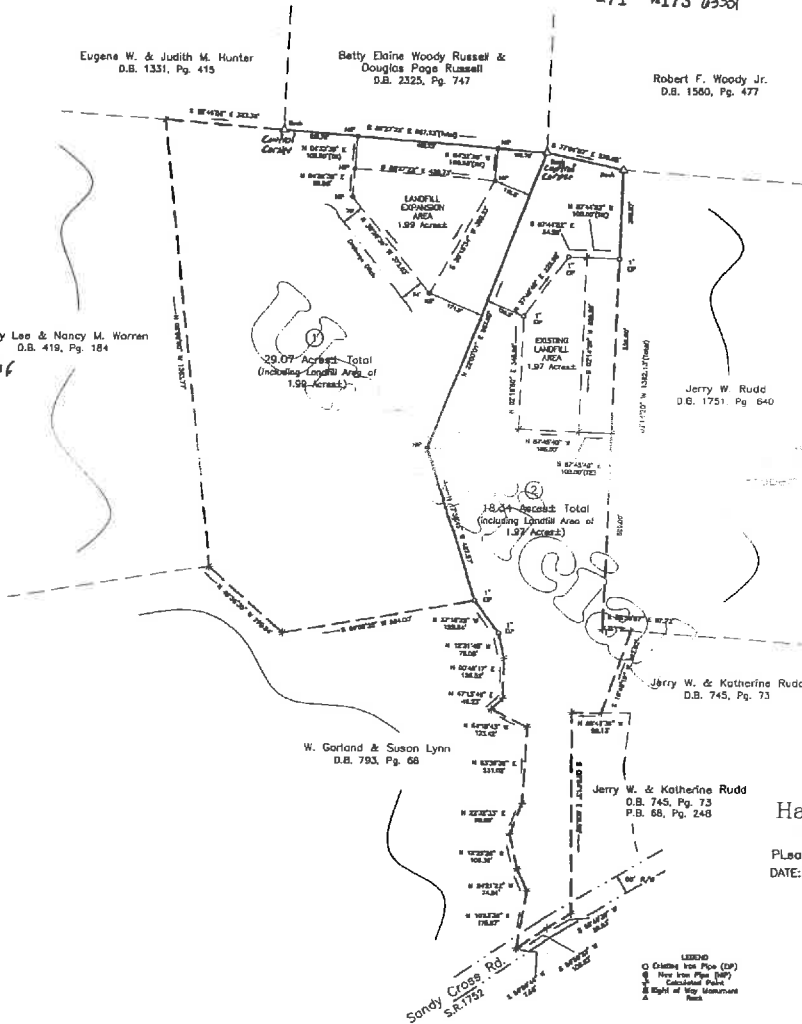
Book 211, CONVEYANCE PLAT, 671
Recorded: 09/29/2006 at 1:14:10 PM
Page 178 of 178
DATE: 9/29/2006
=71 =173 6338

VICINITY MAP



Property Information:

Owner: Hanover Road Properties, Inc.
Property Address: 2380 Sandy Creek Road
Tax Parcel ID: 0027400745 & 0027303061
Deed Book: 2035 Page: 203
419 Page: 184



Final Plat Subdivision
and Land Clearing and Inert Debris
Landfill Location

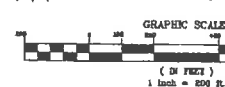
of the Property of

Hanover Road Properties, Inc.

PLasant Grove Township, Alamance County, North Carolina
DATE: 09/07/06 SCALE: 1" = 200' J. Leo Boswell L- 3177

Boswell Surveyors, Inc.

505 East Davis Street 336.227.8723 (phone)
Burlington, NC 27215 336.222.9817 (fax)
surveyor@ncsouth.net



LEGEND
O Center Line Pole (CLP)
N New Line Pole (NLP)
C Calculated Point
B Right of Way Boundary
A Area

Drawn by: JLB
06-258-200

BOOK 419 PAGE 184

This Deed, made this 18th day of August, 1976

PAUL M. NOELL, single



hereinafter called Grantors, to

JERRY LEE WARREN and wife, NANCY MARTIN WARREN *P.O. Box 457, Burlington, NC*

The designations Grantors and Grantees as used herein shall include singular, plural, masculine, feminine, or neuter as required by the context.

WITNESSETH: That the Grantors, in consideration of \$10.00 and other valuable consideration to them paid by the Grantees, the receipt of which is acknowledged, have bargained and sold, and by these presents do bargain, sell and convey to the Grantees, their heirs, successors, and assigns, all of the following described real property:

A certain tract or parcel of land in Pleasant Grove Township, Alamance County, North Carolina, adjoining Lea S. Lynn, Cornelia V. Barnwell, H. W. Jefferies and others and more particularly bounded and described as follows:

BEGINNING at an iron stake at the northwestern corner of Lea S. Lynn in the line of Cornelia V. Barnwell; thence with Barnwell, N. 04° 40' 50" E. 841.69 ft. to a rock, corner with H. W. Jefferies; thence with Jefferies, N. 04° 40' 50" E. 518.31 ft. to an iron stake, corner with Jefferies; thence again with Jefferies, S. 85° 47' E. 1086.84 ft. to an iron stake, a new corner with Paul M. Noell in the line of H. W. Jefferies; thence a new line with Noell S. 06° 00' E. 1362.85 ft. to an iron stake a new corner with Noell in the line of Lea S. Lynn, said point also marking the corner of a 30 ft. access easement hereinafter described; thence with Lynn N. 48° 30' W. 24.89 ft. to an iron stake corner with Lynn, thence again with Lynn, N. 87° 15' W. 1320.00 ft. to the point of BEGINNING, and containing 37.40 acres more or less as shown on a plat of the property of Paul M. Noell by David Thompson, Registered Surveyor, recorded in the office of the Register of Deeds for Alamance County, N.C. in Plat Book ____ at page ____.

Also conveyed herewith is an easement of ingress and egress 30 ft. in width to the hereinbefore described tract, more particularly described as follows:

BEGINNING at a point in the center line of the Secondary Road 1752, corner with Paul M. Noell said point being located N. 62° 42' E. 383.09 ft. from a point in the center of said road, over a branch crossing same; thence with Noell, N. 06° 05' W. 429.58 ft. to a point; thence N. 14° 14' E. 98.11 ft. to a point; thence N. 80° 20' W. 173.36 ft. to a point; thence N. 44° 42' W. 148.66 ft. to a point; thence N. 18° 50' W. 117.69 ft. to a point; thence N. 53° 00' W. 121.56 ft. to a point, corner with Noell and Lea S. Lynn; thence with Lynn, S. 80° 15' W. 594.00 ft. to a point; thence again with Lynn, N. 48° 30' W. 324.06 ft. to an iron stake marking the southeastern corner of the 37.40 acre tract hereinbefore described; thence with said tract, N. 06° 00' W. 44.40 ft. to a point in the line of said tract; thence with Noell, S. 48° 30' E. 317.51 ft. to a point; thence N. 80° 15' E. 592.58 ft. to a point; thence S. 53° 00' E. 193.74 ft. to a point; thence S. 18° 50' E. 120.74 ft. to a point; thence S. 44° 42' E. 132.13 ft. to a point; thence S. 80° 20' E. 196.21 ft. to a point; thence S. 14° 14' W. 125.23 ft. to a point; thence S. 06° 05' E. 418.23 ft. to a point in the center line of Secondary Road 1752; thence with the center line of said road, S. 72° 50' W. 30.57 ft. to the point of BEGINNING as shown on a plat of the property of Paul M. Noell by David Thompson, Registered Surveyor, recorded in the office of the Register of Deeds for Alamance County, N.C. in Plat Book ____ at page ____.

The above property was conveyed to the Grantors by TO HAVE AND TO HOLD said real property, with all privileges, and appurtenances thereto belonging, to the said Grantees, their heirs, successors, and assigns forever.

The Grantors covenant that they are seised of said real property in fee, and have the right to convey the same in fee simple; that the same is free from all encumbrances (with any exceptions above stated); and that they will warrant and defend the title to same against the claims of all persons whomsoever.

EASEMENT AS
NOTED ON PLAN

IN WITNESS WHEREOF, the Grantors have hereunto set their hands and seals, or if corporate, have caused this Deed to be signed in their corporate names by their duly authorized officers and their seals to be hereunto affixed by authority of their Boards of Directors, the day and year first above written.

Paul M. Noell

(SEAL)

(SEAL)

STATE OF NORTH CAROLINA, COUNTY OF ALAMANCE

I, W. Dean Ramsey, a Notary Public of said County, do hereby certify

that Paul M. Noell, single

personally appeared before me this day and acknowledged the due execution of the foregoing deed. Witness my hand and official seal, this 24 day of August, 1976.

My Commission Expires: 5-13-80 W. Dean Ramsey Notary Public

STATE OF _____, COUNTY OF _____

I, _____, a Notary Public of said County, do hereby certify

that

personally appeared before me this day and acknowledged the due execution of the foregoing deed. Witness my hand and official seal, this _____ day of _____, 19____.

My Commission Expires: _____ Notary Public

STATE OF _____, COUNTY OF _____

I, _____, a Notary Public of said County, do hereby certify

that

personally appeared before me this day and acknowledged the due execution of the foregoing deed. Witness my hand and official seal, this _____ day of _____, 19____.

My Commission Expires: _____ Notary Public

STATE OF _____, COUNTY OF _____

I, _____, a Notary Public of said County, do hereby certify

that

personally appeared before me this day and acknowledged the due execution of the foregoing deed. Witness my hand and official seal, this _____ day of _____, 19____.

My Commission Expires: _____ Notary Public

STATE OF _____, COUNTY OF _____

I, _____, a Notary Public of said County, do hereby certify

that

personally appeared before me this day and acknowledged the due execution of the foregoing deed. Witness my hand and official seal, this _____ day of _____, 19____.

My Commission Expires: _____ Notary Public

STATE OF NORTH CAROLINA, COUNTY OF ALAMANCE

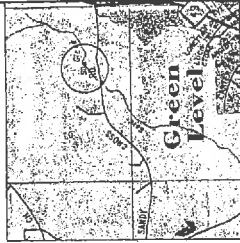
The foregoing certificate(s) of W. Dean Ramsey a Notary (or Notaries) Public of the governmental units designated is (are) certified to be correct.

Filed for registration on the 24 day of August, 1976, at 4:55 o'clock P. M., and duly recorded in the Office of the Register of Deeds of this County in Book of Deeds No. 419 page 185.

D. B. PARIS, Register of Deeds

By Marianne N. Pittman, Asst.

VICINITY MAP



Property Information:
 Owner: Hanover Road Properties, Inc.
 Property Address: 2380 Sandy Cross Road
 Tax Parcel ID: 8897400748 & 889733681
 Deed Book: 2035 Page: 209
 415 184

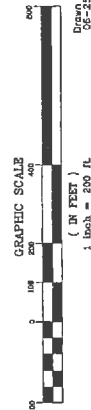
NOTE: Dashed lines represent property lines not actually surveyed. Acreage calculated from deed. Property subject to 30' Easement to Jerry Lee Warren as per Deed Book 419, Page 184.

Final Plat Subdivision
 and Land Clearing and Inert Debris
 Landfill Location

of the Property of
Hanover Road Properties, Inc.

Pleasant Grove Township, Alamance County, North Carolina
 DATE: 09/07/06 SCALE: 1" = 200' J. Leo Boswell L-3177

Boswell Surveyors, Inc.
 505 East Davis Street 336.227.8723 (phone)
 Burlington, NC 27215 336.222.5917 (fax)
 surveyor@bpath.net



Drawn by: JLB
 09-255-280

Recorded: 10/05/2006 at 02:18:04 PM
 ALAMANCE COUNTY, NC
 Deed Book 2035 Page 209
 415 184

Robert F. Woody Jr.
 D.B. 1550, Pg. 477

Betty Elaine Woody Russell &
 Douglas Page Russell
 D.B. 2325, Pg. 747

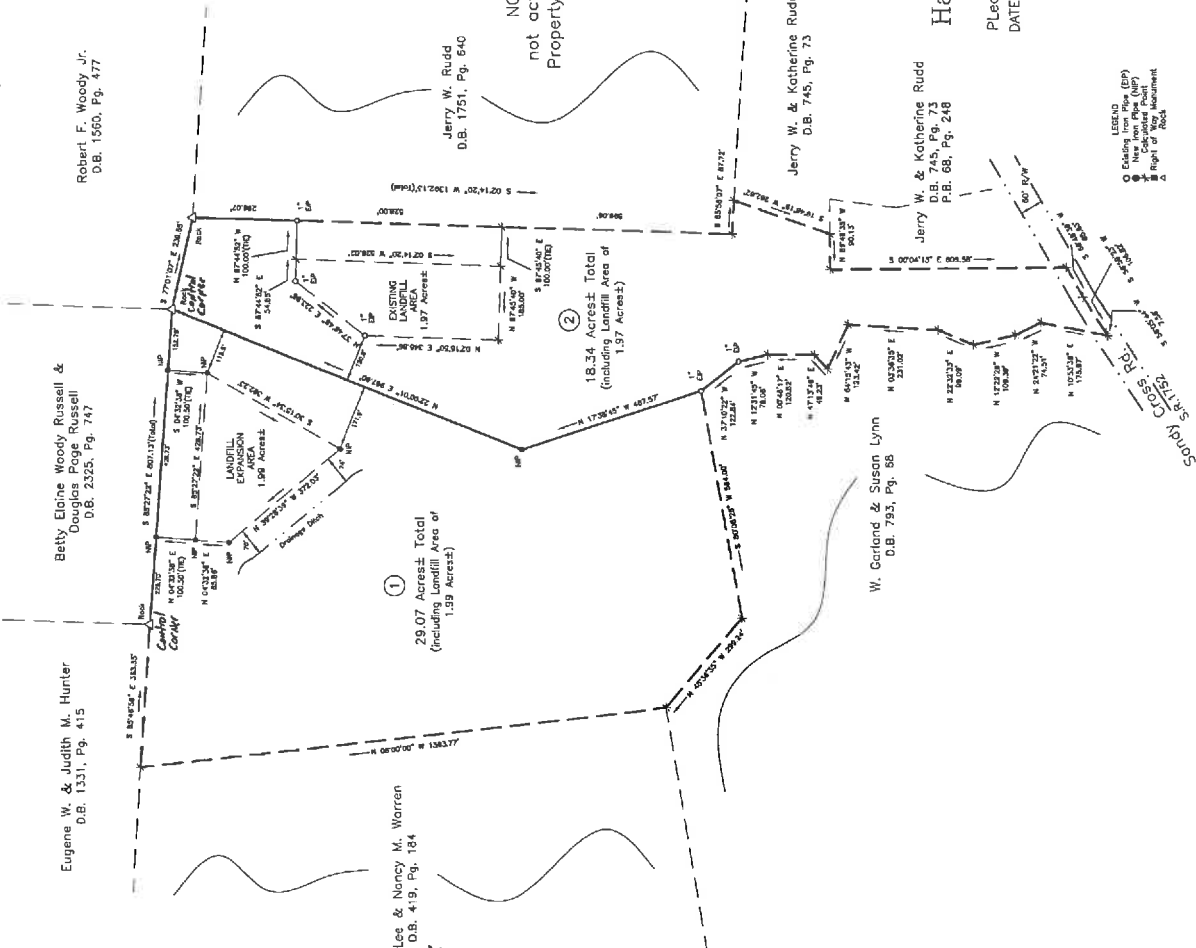
Eugene W. & Judith M. Hunter
 D.B. 1331, Pg. 415

Jerry Lee & Nancy M. Warren
 D.B. 419, Pg. 184

Jerry W. & Katherine Rudd
 D.B. 745, Pg. 73

Jerry W. & Katherine Rudd
 D.B. 745, Pg. 73
 P.B. 68, Pg. 248

W. Garland & Susan Lynn
 D.B. 793, Pg. 58



LEGEND:
 (B) Existing Boundary (B)
 (N) New Boundary (N)
 (P) Corner Point
 (A) Right of Way

SURVEYOR'S CERTIFICATION

I, J. Leo Boswell, certify that this plat was prepared by me or under my supervision and that the information contained herein is true and correct to the best of my knowledge and belief. I am a duly Licensed Professional Surveyor in the State of North Carolina, License No. L-3177. This plat was prepared in accordance with the provisions of the North Carolina Surveying Act of 1971, Chapter 110, and the rules and regulations of the North Carolina Board of Surveying and Mapping. I am not providing any warranty or representation of any kind, express or implied, for the use of this plat for any purpose other than that for which it was prepared. I am not responsible for any errors or omissions in this plat, and I am not liable for any damages, including consequential damages, arising from the use of this plat. I am not providing any warranty or representation of any kind, express or implied, for the use of this plat for any purpose other than that for which it was prepared. I am not responsible for any errors or omissions in this plat, and I am not liable for any damages, including consequential damages, arising from the use of this plat.



CERTIFICATE OF EXCEPTION

I (We) hereby certify that I am (we are) the owner (owners) of the property described in this plat, and that the information contained herein is true and correct to the best of my (our) knowledge and belief. I am (we are) not providing any warranty or representation of any kind, express or implied, for the use of this plat for any purpose other than that for which it was prepared. I am (we are) not responsible for any errors or omissions in this plat, and I am (we are) not liable for any damages, including consequential damages, arising from the use of this plat.

Thomas S. Martin
 9/28/06
 DATE

NOTES

1. The property shown hereon is subject to all easements, rights, and interests of record, and the surveyor is not responsible for any errors or omissions in this plat, and is not liable for any damages, including consequential damages, arising from the use of this plat.

2. The property shown hereon is subject to all easements, rights, and interests of record, and the surveyor is not responsible for any errors or omissions in this plat, and is not liable for any damages, including consequential damages, arising from the use of this plat.





NORTH CAROLINA

Department of The Secretary of State

To all whom these presents shall come, Greetings:

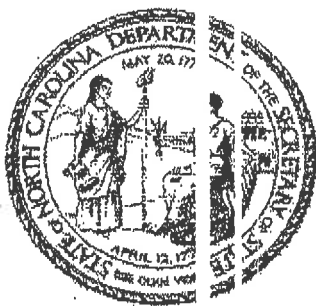
I, **ELAINI F. MARSHALL**, Secretary of State of the State of North Carolina, do hereby certify the following and hereto attached to be a true copy of

ARTICLES OF INCORPORATION

OF

KEY PROPERTIES OF ALAMANCE COUNTY, INC.

the original of which was filed in this office on the 2nd day of November, 2006.



IN WITNESS WHEREOF, I have hereunto
set my hand and affixed my official seal at the
City of Raleigh, this 2nd day of November, 2006

Elaine F. Marshall
Secretary of State

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section

YARD WASTE FACILITY NOTIFICATION
(Effective February 1, 1991)

Pursuant to 15A NCAC 11B .1401 (a), this provision applies to facilities that accept, store, or produce compost or mulch from yard waste.

Pursuant to 15A NCAC 11B .1402(g)(3), the owner or operator of any Type 1 Solid Waste (yard waste) facility which occupies less than two acres of land and processes and stores less than 6,000 cubic yards of material quarterly shall submit this form to the Department by June 1st of each year.

****If a facility is planning to accept waste that is generated by a disaster (e.g. hurricane) and/or the facility, contractor, hauler, etc. wishes to apply for a FEMA reimbursement for managing or disposing of the waste, the facility must be pre-approved to manage or dispose of disaster generated waste. If you have questions concerning this issue or to begin the approval process contact your area Environmental Senior Specialist as soon as possible. Contact information for the Environmental Senior Specialist can be found at <http://portal.ncdenr.org/ceb/wm/sw/> under the staff maps heading (Field Operations Branch). The approval process may take up to several months. Therefore, to avoid unnecessary delays pre-approval (i.e. prior to a disaster event) of a facility is highly recommended. ****

INSTRUCTIONS

Purpose: Notification of yard waste facility sites is required by 15A NCAC 11B .1402(g)(3). A permit is required for facilities storing and processing more than 6,000 cubic yards of material quarterly. Contact the Solid Waste Section at the address below for more information.

Distribution: Mail completed **ORIGINAL** form to the following address:

Division of Waste Management
Composting & Land Application Branch
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
(919) 707-8200

1. Facility Name: Key Properties of Alamance County, Inc.

2. **INCLUDE AN AERIAL PHOTOGRAPH OF THE SITE**
- With a scale of 1 inch = 400 feet or less
 - Must show the area around the proposed facility for at least 1/4th mile
 - Photographs are available from most county tax or planning offices

Directions to Facility location (main entrance): 49 North from Haw River 3 miles, Turn Left on Sandy Cross Road, 1/10ths of mile turn right at facility.

City: Burlington County: Alamance Zip: 27217

The land on which this facility is located is described in the deed recorded in:

Plat Book: 71 Page: 173
Deed Book: 2035 Page: 209 County: Alamance

3. Name of site operator (i.e. a person who operates the facility and will attend the audits):
Roger Q. Maness

4. Mailing address of site operator: Roger Q. Maness 2380 Sandy Cross Road

City: Burlington State: NC Zip: 27217

5. Telephone number of site operator: (336) 578-5665 Email: wiseowl2001@aol.com
6. Name of property owner (if different): Hanover Road Properties, Inc.
7. Mailing address of owner: 818 E. Hanover Road
 City: Graham State: NC Zip: 27253
8. Telephone number of owner: (336) 578-5665 Email: burmech818@aol.com
9. Type of waste received [i.e., leaves, grass clippings, land clearing debris (stumps, etc.)]: leaves, grass clippings
land clearing debris (stumps, etc.) and high carbon nitrogen ratio yard trash
10. Amount of waste received quarterly: 4,388.5 cubic yards - approximately
11. Amount of waste removed quarterly; (note: No more than 8,000 cubic yards of material can be stored on site per quarter at a yard waste notified site.)
2,500 cubic yards received
12. Description of composting process to be used: ("The description of the compost process must minimally include formation of windrows or annual turning of leaves (i.e. passive composting). If additional processing is done, explain briefly; i.e., usage of tub grinder, monthly aeration, etc.). Please note if you are composting pursuant to 15A NCAC 13B .1406 (10) temperature records must be maintained that show at least 131 degrees F was maintained for three days so as to meet minimum pathogen reduction requirement before final compost is distributed. These records must be maintained and presented to the field inspector upon request.
N/A
13. Description of mulching process: ("The description of the mulching process must minimally include a description of the process, usage of a tub grinder, etc. Also, explain if the mulching operation will include "yard trash" other than "high carbon nitrogen" material as described in North Carolina General Statute 130A-290(45). If so, include under item 14 of this application the intended distribution of the final product. Additionally, only untreated wood and non-engineered wood / wood products can be mulched at a facility that has a yard waste notification.
The materials from this site which include brush, limbs, leaves, etc. are turned into mulch using a tub grinder (Mobark 1200 or Mobark 1300). The mulch is then removed from this site to other locations for further processing.
14. Intended distribution of finished product: ("Explain briefly how the compost or mulch from your site is to be used. Notified sites are not approved for permanent storage.)
The mulch is distributed to retail lots where it can be sold to commercial landscape and nurseries.

- (12) The within-vessel composting method, in which the temperature in the compost piles shall be maintained at a minimal temperature of 131 degrees F (55 degrees Celsius) for at least three days.
- (13) Nitrogen bearing wastes shall be incorporated as necessary to minimize odor and the migration of nutrients.
- (14) Miscellaneous Requirements:
 - (i) The finished compost shall meet the classification and distribution requirements outlined in Rule .1407 of this Section.
 - (f) The quality of the final product shall determine the allowable uses as outlined in Rule .1407 of this Section.
 - (k) The final product shall be approved by the Solid Waste Section as outlined in Rule .1407 Paragraph (e) of this Section.
 - (i) Non-compostable solid waste and unacceptable compost shall be disposed in a solid waste management facility permitted to receive the particular type of waste under 15A NCAC 13B.
 - (ii) The amount of compost stored at the facility shall not exceed the designed storage capacity.

History Note: Author: G.S. 130A-294; 130A-309.03; 130A-309.11; 130A-309.29
 Eff. Date: March 1, 1991; RRC objection Eff. April 18, 1996 due to lack of statutory authority;
 Amend d Eff. June 1, 1996.

15. Certification:

To the best of my knowledge and belief, I certify the information provided in this notification is true, accurate, and complete. Furthermore, the facility will comply with the operational and setback requirements of Small Type 1 Compost (yard waste) facilities as outlined in .1406 and .1404(a)(1)-(10) of the Solid Waste Compost Rules.

Name of Authorized Agent

Bobby King

Signature

Bobby King

Date

6/26/13



NOTARY PUBLIC

Patty J. Wilson

Date

6/26/13

My commission expires:

March 31, 2018

Disposition:

This form will be transferred to the State Records Center when reference value ends. Records will be held for agency in the State Records Center five (5) additional years and then transferred to the custody of the Archive.

DENR 3764 (2/91)

Solid Waste Section (Revised 9/96)

S:\Solid_Waste\CLA\Composting_Yard_Waste\YW Notification Form 2013

EXHIBIT "A"

TRACT 1 A certain tract or parcel of land in Pleasant Grove Township, Alamance County, North Carolina, adjoining Sandy Cross Road (S.R. 1752), Jerry W. Rudd, Clyde Squires, W. Garland Lynn and Jerry Lee Warren and described as follows:

BEING A PART OF A 46.58 acre tract of land as shown on a Final Plat of the Property of Roger Q. Maness and Joel Wayne Maness as surveyed and calculated by Boswell Surveyors, Inc., October 25, 1996, plat of which is recorded in Plat Book 57, Page 75 of the Alamance County Registry, to which reference is made for a more complete description.

This conveyance is subject to a 30 foot easement to Jerry Lee Warren recorded in Deed Book 419, Page 184 of the Alamance County Registry and to existing utility easements and rights of way of record.

TRACT 2 A certain tract or parcel of land in Pleasant Grove Township, Alamance County, North Carolina, adjoining the lands of Jerry W. Rudd and described as follows:

BEGINNING at a iron pipe, control corner with the above described tract, running thence with the above described tract S. 78 deg. 20' 51" E. 94.81 feet to a rock control corner; thence with the line of Jerry W. Rudd S. 85 deg. 45' 10" E. 87.72 feet to a new iron pipe, a new corner with Jerry W. Rudd; running thence with Jerry W. Rudd, S. 20 deg. 01' 16" W. 132.62 feet to a new iron pipe, a new corner with Jerry W. Rudd in the line of Lot No. 1; running thence with Lot No. 1 N. 89 deg. 36' 38" W. 90.13 feet to an iron stake in the line of the above described tract; thence with the line of the above described tract N. 03 deg. 03' 44" W. 271.78 feet to the BEGINNING, containing 0.81 acres, more or less, as shown on a Final Plat, Subdivision of the Property of Jerry W. Rudd and wife, Katherine M. Rudd, as surveyed by Boswell Surveyors, Inc., dated December 18, 2003, plat of which is recorded in Plat Book 68, Page 248 of the Alamance County Registry, to which reference is hereby made for a more complete description.

This parcel is to be added to and become a part of the above described 46.58 acre tract.

The foregoing Tracts 1 and Tract 2 are also shown as Lot 1 containing 29.07 acres, more or less, (including Landfill Area of 1.99 acres) and all of Lot 2, containing 18.34 acres, more or less, (including Landfill area of 1.97 acres) as shown on plat of Boswell Surveying, Inc. dated September 7, 2006 entitled "Final Plat Subdivision and Land Clearing and Inert Debris Landfill Location of the Property of Hanover Road Properties, Inc." recorded in Plat Book 71 at Page 173 of the Alamance County Registry.

This conveyance is subject to Land Clearing and Inert Debris Landfill Notification in Deed Book 2477 at Page 295 as shown on recorded plat in Plat Book 71 at Page 173 and 30 foot easement to Jerry Lee Warren.



Book 2035 Page 209
Alamance County, NC
Recorded 02/11/2004 01:50:43pm
No 9999-00112132 1 of 4 pages
Excise Tax: \$480.00
Muriel W Tarpley, Register of Deeds

NORTH CAROLINA GENERAL WARRANTY DEED

Excise Tax \$480.00 Recording Time, Book and Page
Tax Map No. _____ Parcel Identifier No. _____

Mail after recording to: Grantee

This instrument was prepared by R. Nelson Richardson, Attorney.

NORTH CAROLINA
GENERAL WARRANTY DEED

THIS DEED made this 11th day of February, 2004 by and between
GRANTOR

ROGER Q. MANESS and wife, PRISCILLA C. MANESS

GRANTEE

HANOVER ROAD PROPERTIES, INC.

818 E. Hanover Road
Graham, NC 27253

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land in Pleasant Grove/Haw River Township, Alamance County, North Carolina and more particularly described as follows:

9999-00112132

See attached "Exhibit A" for complete description.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomever except for the exceptions hereinafter stated.

Title to the property hereinabove described is hereby conveyed subject to all valid and subsisting restrictions, reservations, covenants, conditions, rights of ways and easements properly of record, if any, and current year ad valorem taxes.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal the day and year first above written.

Roger Q. Maness (SEAL)
Roger Q. Maness

Priscilla C. Maness (SEAL)
Priscilla C. Maness

NORTH CAROLINA
ALAMANCE COUNTY

I, R. Nelson Richardson, a Notary Public for said County and State, do hereby certify that **Roger Q. Maness and wife, Priscilla C. Maness**, personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 11th day of February, 2004.

R. Nelson Richardson
Notary Public

My Commission expires:

3/3/2004



ORIGINAL COM.
North Carolina - Alamance County
R. NELSON RICHARDSON
NOTARY PUBLIC

State of North Carolina Alamance County
The foregoing certificate(s) of _____

R. Nelson Richardson
A Notary (Notaries) Public of the Designated Governmental
units is (are) certified to be correct.
This the 11th day of Feb. 2004
MURIEL W. TARPLEY
Register of Deeds By Assistant Deputy

234

EXHIBIT "A"

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This parcel is to be added to and become a part of the above described 46.58 acre tract.

"Exhibit A"
Page Two

TRACT 3:

That certain tract or parcel of land in Pleasant Grove Township, Alamance County, North Carolina, and being more particularly described as follows:

BEING ALL OF LOT NUMBER ONE (1), containing 35.66 acres, more or less, as shown on plat of Boswell Surveyors, Inc. dated July 5, 1999 entitled "Final Plat Redivision Property of Roger Maness Previously recorded in P.B. 62 PG. 134", recorded in Plat Book 64 at Page 69 of the Alamance County Registry, North Carolina, to which plat reference is hereby made for a more particular description.

TRACT 4:

That certain tract or parcel of land in Pleasant Grove Township, Alamance County, North Carolina, and being more particularly described as follows:

BEING ALL OF LOT NUMBER TWO (2), containing 9.00 acres, more or less, as shown on plat of Boswell Surveyors, Inc. dated July 5, 1999 entitled "Final Plat Redivision Property of Roger Maness Previously recorded in P.B. 62 PG. 134", recorded in Plat Book 64 at Page 69 of the Alamance County Registry, North Carolina, to which plat reference is hereby made for a more particular description.

Post-Construction Documents

Hands-On Operating Practices

Emergency/Disaster Debris Site Process Flow

Site Selection

County contacts specialist as part of program planning and related to disaster

Specialist works with County in selecting suitable sites

Specialist submits completed Site Selection form to Central Office

Central Office uses form to complete approval for the site by having Natural Heritage Program (NHP) and State Historic Preservation Office (SHPO) assess the site for sensitive characteristics

Negative response received from either NHP or SHPO

Specialist contacted by Central Office and informed of issues

Specialist informs County of issues

New sites selected

Positive response received from NHP and SHPO

Site added to database in Central Office and given ID number¹

Approved Site Selection Form with ID number given to county for future use

Activation (post-disaster)

Site Activation form filed with Central Office

Site posted on web for public access

Specialist informs County they have a 6 month window to utilize the site

County utilizes the site

Deactivation

Site restored after use and inspected by Specialist. Deactivation form sent to Central Office

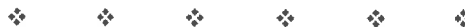
Site remains in database for future activation, unless site conditions change

Footnotes:

1. ID number may be required for FEMA reimbursement.

Revised 11/06

- ✓ Equipment and supply listings. Include a brief description of type of equipment, amount of available supplies, and locations of both.
- ✓ Field and regional office/facility locations. Include maps, personnel, contact data and a list of available equipment and supplies for each location.
- ✓ Lists of private sector supplies and equipment that can supplement or substitute for agency resources.
- ✓ Media lists with fill-in-the-blank press releases and background materials for a variety of crises. Include television, radio, print, media, and wire services.
- ✓ Maps, charts, and diagrams of major transportation corridors and alternative routes. Emergency vehicles and debris removal teams need fast access during emergencies.



CONTRACTS

Evaluating and awarding contracts to remove and process debris takes time you don't have in a crisis. Create sample contracts that invite bids and request services now, to reduce response time in the future. The contracts vary per emergency. Here are several options:

CONTRACT TYPE	USE WHEN
Time and Material	Short-term Contractor paid by time spent Services for first 70 hours Used immediately after a disaster for emergency life saving activities and debris clearance
Unit Price	Long-term Payment based on construction units Prices and scope of work can be increased/decreased Use beyond initial 70 hours of recovery Use when scope of work is undefined and can be quantified by actual field measures (e.g. recycle 10 tons concrete, 7 trees, etc.)
Lump Sum	Long-term Total contract price by one-item bid Use beyond initial 100 hours of recovery Use when scope of work is clearly defined and areas of work specifically quantified (e.g. demolish and recycle 1 structure for \$10,000)

SAMPLE CONTRACT LANGUAGE

Example 1: City of XYZ cleanup contract.



Notice Inviting Bids

◆ In response to the tornado of September 16, 1999, the City of XYZ has stockpiled disaster related debris at two designated sites. The North Carolina Solid Waste Management Act (G.S. 130A-309.04(c)) requires that the City of XYZ take steps to reduce the amount of waste going to landfills. Consequently, the stockpiled materials shall be diverted from landfills to the greatest extent possible.

Contractor Service Requirements

- ◆ Contractor should transport recovered material to a permitted resource recovery facility within a 40-mile radius from sites.
- ◆ Contractor shall provide all necessary equipment, materials and labor necessary to remove and recover, to the extent possible, all stockpiled disaster related debris at the sites.
- ◆ Contractor shall haul all material that is non-recoverable to a state-permitted sanitary landfill for disposal.
- ◆ Contractor shall provide the City of XYZ with documentation of the amount and type of material removed from the sites.
- ◆ 'Recover' means to utilize materials which can be used as raw materials in the manufacture of new products, or as values which can be converted into a fuel or energy source. 'Recover' may include reuse, recycling, waste-to-energy, composting, and/or other components.

Example 2: City of ABC, master contract, 1999 Hurricane Sam.



The City let a master contract for the removal, disposal, and recycling of debris. Bid specifications for the contractors to remove the debris stated that the contractor is responsible for removal and transportation of cut trees to proper recycling or recovery facilities and that the contractor must segregate metals, concrete, and other recyclables from non-recyclable debris at the site of generation.

◆ Additionally, the City provided contractors with the names of Triangle area construction and demolition waste recyclers, and required contractors to provide weekly load verification reports to prove that the materials were entering a recycling facility.

Example 3: City of LMN, building demolition, spring 1998 flood



Project Requirements

- ◆ Recycle demolition materials to the greatest extent possible without delaying the project.
- ◆ Summarize and document the amounts and types of materials directly recycled and material removed from the site on the recycling log attached to this Contract. Documentation includes receipts of materials sold, etc.
- ◆ Demolition debris not directly recycled from the site must be hauled to the recycling facility (not landfill) located at (site). The recycling facility located at (address) charges \$ xx/ton for inert material and \$ xx/ton for mixed loads.
- ◆ Identify loads to (site) as "City Demolition Debris," state the demolition site address, and pay all allocated fees. A representative from the City Solid Waste Management Office will collect copies of weight tickets from the previous day's work at the demolition site on a regular basis. Copies of weight tickets must also be turned in to the Engineer at the completion of the project.
- ◆ Note: Contractor will be assessed a non-compliance fee of \$ XXX per load for any documented mixed debris that is not delivered to the recycling center at (address). The non-compliance fee will be deducted from final payment.



d. What equipment and staff will be required to manage the TDDSS? At least one person is required to be on site while TDDSS is operational. Site access must be prevented when not operational. Will the equipment/staff being used for the TDDSS take away from the daily operations of the facility?

Non-Active Facilities / Closed Landfills

To be able to site a TDDSS at a non-active facility (Ex: Closed Landfill), facilities must follow the normal approval procedures for all Debris Staging Sites. Special precautions should be taken in siting to ensure the TDDSS does not damage the existing landfill cap and/or the groundwater/landfill gas systems.

The TDDSS application form may be found at the website below or by contacting your regional Environmental Senior Specialist:

<http://www.wastenotnc.org/swhome/EmergencySiteSelectionForm.pdf>

Contact information can be found here: <http://www.wastenotnc.org/swhome/FieldOpMapC.pdf>

=====

If you are not due for a permit renewal at this time, you will be issued an authorization letter and you will be required to include this information in your permit upon renewal. If you are currently working on your permit renewal or a permit modification for other items, please update your site maps and operations plans at this time to be included in your submittals. As with all permit changes, administrative fees may be applicable. **This approval process is conditional meaning the TDDSS will be ready for activation during a disaster or storm event, and should not be used otherwise without approval of the Section. Facility staff must contact their regional Environmental Senior Specialist (ESS) to activate the site for usage.**

Once a TDDSS is activated, all waste must be removed from the site within 6 months of acceptance of the first load of waste. All disturbed areas should be reseeded and mulched to prevent erosion from occurring. A follow-up site inspection will be required by the regional ESS prior to site being closed out for that particular event. Once a TDDSS is approved, it will remain available for use as long as the site remains suitable for usage, meaning all buffers and other siting requirements are the same. Sites will be re-evaluated at least once every three (3) years to ensure it is still available for use.

DWM Use Only:

Buffers have met DWM Requirements ☐ YES / ☐ NO

Flood Plain or
Flood Prone Areas

Wetlands

Erosion Control

Access, Site
Security

Safety Issues -
Power Lines,
Traffic, etc.

Coordination with the Division of Air Quality ☐ YES / ☐ NO / ☐ NA

Buffers have met DAQ Requirements ☐ YES / ☐ NO

Coordination with Land Quality Section ☐ YES / ☐ NO / ☐ NA

Coordination with State Historic Preservation Office (SHPO)/Office of State Archaeology ☐ YES / ☐ NO

Coordination with Natural Heritage Program (endangered species) ☐ YES / ☐ NO

General Comments

Coordinates Verified ☐ YES / ☐ NO

Solid Waste Section
Representative

Date of
Inspection

Equipment Manufacturers and Vendor Information

<u>Emergency Contacts</u>	<u>Number</u>
---------------------------	---------------

EMERGENCY:	911
ALAMANCE COUNTY EMERGENCY MANAGEMENT:	336-227-1365
ALAMANCE COUNTY SHERIFF:	336-570-6300
CITY OF GRAHAM:	336-570-6700
FAUCETTE FIRE DEPARTMENT, STATION 7	336-226-4042
HAW RIVER FIRE DEPARTMENT, STATION 4	336-578-1355
TOWN OF GREEN LEVEL:	336-578-3443
TOWN OF HAW RIVER:	336-578-0784
CITY OF MEBANE:	919-563-5901
MEBANE SHRUBBERY:	336-578-3100
PLEASANT GROVE VOL. FIRE DEPARTMENT, STATION 12	336-578-3136



Division of Waste Management - Solid Waste Section
Emergency Site Selection Evaluation Sheet
Disaster Debris

Site Name: _____ Site Location: _____

Physical Address
or Directions: _____

City: _____ County: _____

Primary Contact: _____ Telephone #: _____

Additional Contact: _____ Telephone #: _____

Approx. Size of Area to be used for Disaster Debris: _____ Acres GPS Coordinates (decimal degrees): _____ N _____ W

Intended Use of Site:

- ☐ Staging/Storage for **Removal** ☐ Staging/Storage for **Chipping** ☐ Staging/Storage for **Burning**

Please provide a brief description of planned operations:

Type of Waste:

- ☐ **Vegetative** Debris ☐ **Demolition** Debris

Comments: _____

Buffers Required (the following must be clearly delineated with flagging, survey stakes, etc.):

- ☐ 100 feet from property boundaries and on-site structures
☐ 100 feet from residences, private wells (vegetative debris only), and septic tank systems
☐ 100 feet from surface waters
☐ 250 feet from potable wells (demolition debris)
☐ 300 feet from grinding operations to residence and business properties, publicly owned roads or properties

Please attach a site plan and/or aerial photograph showing the boundaries and location or the proposed site.

Additional information can be found at <http://www.wastenotnc.org/swhome/planning.asp>

DWM Use Only:

Buffers have met DWM Requirements

☐ YES / ☐ NO

Flood Plain or
Flood Prone Areas

Wetlands

Erosion Control

Access, Site
Security

Safety Issues -
Power Lines,
Traffic, etc.

Coordination with the Division of Air Quality

☐ YES / ☐ NO / ☐ NA

Buffers have met DAQ Requirements

☐ YES / ☐ NO

Coordination with Land Quality Section

☐ YES / ☐ NO / ☐ NA

Coordination with State Historic Preservation Office (SHPO)/Office of State Archaeology

☐ YES / ☐ NO

Coordination with Natural Heritage Program (endangered species)

☐ YES / ☐ NO

General Comments

Coordinates Verified

☐ YES / ☐ NO

Solid Waste Section
Representative

Date of
Inspection

Guidance for Siting Temporary Disaster Debris Staging Sites At Permitted Solid Waste Management Facilities April 2009

The NC Solid Waste Section will allow Temporary Disaster Debris Staging Sites (TDDSS) to be sited at permitted facilities (active and non-active) as long as the following criteria are met:

Active Facilities

1. The facility was reviewed and approved by the Natural Heritage Program (NHP) and State Historic Preservation Office (SHPO) during a previous facility permitting process. If the facility was not required to complete this review, then it must be completed prior to siting a TDDSS within the facility boundary.
2. The location of the TDDSS must be located on the facility's site drawings. The location if applicable, must also meet the standard buffer requirements for non-facility TDDSS as described here:

100 feet from property boundaries and on-site structures

100 feet from residences, private wells (vegetative debris only), and septic tank systems

100 feet from surface waters

250 feet from potable wells (demolition debris)

300 feet from grinding operations to residence and business properties, publicly owned roads or properties

3. A description of all proposed activities addressing the operation of the TDDSS must be submitted. The following, at a minimum, shall be addressed:

a. What type(s) of waste will be accepted at the TDDSS and how will it be managed? All waste should be managed in accordance with the existing NC Solid Waste Rules that govern that waste type as well as the guidance provided on the Disaster Debris website:
<http://www.wastenotnc.org/swhome/emergencydebris.asp>

b. Will the operation of the TDDSS be separate or will it be coordinated into the daily operations of the facility at which it is located? Ex: Will waste be stockpiled and managed separately (hailed off site for use or disposal) or will waste be directed within the facility (C&D/MSW material going directly into the landfill). A combination of management strategies is allowed.

c. How will incoming disaster debris be tracked? Tracking of waste volume is required by FEMA to determine reimbursement and NC Dept of Revenue if it is subject to the disposal tax. Ex: All debris will be weighed in at the scale house and then directed to the TDDSS area.

IMPORTANT – All waste remains subject to the \$2 disposal tax if it is simply disposed of at the facility rather than processed and removed for another use. FEMA may or may not reimburse facilities for the \$2 tax.

d. What equipment and staff will be required to manage the TDDSS? At least one person is required to be on site while TDDSS is operational. Site access must be prevented when not operational. Will the equipment/staff being used for the TDDSS take away from the daily operations of the facility?

Non-Active Facilities / Closed Landfills

To be able to site a TDDSS at a non-active facility (Ex: Closed Landfill), facilities must follow the normal approval procedures for all Debris Staging Sites. Special precautions should be taken in siting to ensure the TDDSS does not damage the existing landfill cap and/or the groundwater/landfill gas systems.

The TDDSS application form may be found at the website below or by contacting your regional Environmental Senior Specialist:

<http://www.wastenotnc.org/swhome/EmergencySiteSelectionForm.pdf>

Contact information can be found here: <http://www.wastenotnc.org/swhome/FieldOpMapC.pdf>

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If you are not due for a permit renewal at this time, you will be issued an authorization letter and you will be required to include this information in your permit upon renewal. If you are currently working on your permit renewal or a permit modification for other items, please update your site maps and operations plans at this time to be included in your submittals. As with all permit changes, administrative fees may be applicable. **This approval process is conditional meaning the TDDSS will be ready for activation during a disaster or storm event, and should not be used otherwise without approval of the Section. Facility staff must contact their regional Environmental Senior Specialist (ESS) to activate the site for usage.**

Once a TDDSS is activated, all waste must be removed from the site within 6 months of acceptance of the first load of waste. All disturbed areas should be reseeded and mulched to prevent erosion from occurring. A follow-up site inspection will be required by the regional ESS prior to site being closed out for that particular event. Once a TDDSS is approved, it will remain available for use as long as the site remains suitable for usage, meaning all buffers and other siting requirements are the same. Sites will be re-evaluated at least once every three (3) years to ensure it is still available for use.

PREPARED?

Planning for a natural disaster

North Carolina Department of Environment and Natural Resources Division of Waste Management Solid Waste Section

Disasters strike anywhere, anytime. Is your community prepared? The Solid Waste Section of the North Carolina Division of Waste Management has developed this brochure to help you plan a disaster debris management program.

Being prepared helps divert significant amounts of valuable materials that can be recycled or reused and preserve landfill capacity.



Several first steps should be taken when establishing a debris management plan:

- STEP 1: Designate department liaisons, form a debris team and name a manager. Debris teams staffed by decision makers are more efficient.
- STEP 2: Evaluate the potential for specific disaster events. Have the debris team develop disaster specific checklists.
- STEP 3: Study existing emergency plans and procedures to see how they impact your plan.
- STEP 4: Create a contact list of local, state, and federal agencies involved in disaster debris management.

DEBRIS TEAM TASKS

Establishing the debris team with public and private upper management staff is critical to an efficient, coordinated relationship in times of crisis. This team needs to establish guidelines for these tasks:

- | | | |
|--|-------------------------------------|---------------------------|
| ♦ rebuilding using recycled-content products | ♦ building demolition program | ♦ mutual aid |
| ♦ pre-disaster assessment | ♦ public information program | ♦ reimbursement |
| ♦ debris management programs | ♦ curbside collection program | ♦ government coordination |
| ♦ emergency and disaster declaration process | ♦ household hazardous waste program | ♦ temporary storage sites |
| ♦ contracts (short and/or long term) | ♦ Federal Public Assistance Program | |

Advance planning is the key to a successful disaster debris management program. When public health and safety are priorities, debris disposal and diversion programs are critical. Managing debris properly helps restore and maintain public health and safety.



STEP 1: All Temporary Debris Staging Sites Must Be Pre-Approved By The DWM, SWS (sites are approved for a six month period only)

- STEP 2: Make diversion programs a priority.
- STEP 3: Learn federal debris removal criteria and guidelines.
- STEP 4: Develop a debris removal strategy.
- STEP 5: Identify project scope.
- STEP 6: Select debris management program(s).
- STEP 7: Set program goals.
- STEP 8: Identify labor needs.
- STEP 9: Identify equipment needs.
- STEP 10: Determine operation methods.

- STEP 11: Adapt program length.
- STEP 12: Review funding options.
- STEP 13: Create public information program.
- STEP 14: Develop monitoring and enforcement program.
- STEP 15: Identify program barriers.
- STEP 16: Develop a contingency plan.
- STEP 17: Pursue regional coordination.
- STEP 18: Develop diversion incentives.
- STEP 19: Create program accounting/tracking system.
- STEP 20: Develop a training program.
- STEP 21: Create records retention system and archives.
- STEP 22: Prepare summary of activities and results.
- STEP 23: SWS must conduct a final closure inspection.

Planning is only effective if written guidelines are in place. This allows a systematic, comprehensive strategy. A central notebook with detailed information should be developed and updated annually. Here are some checklists to consider including in a notebook:

- ✓ Contact lists of executive and emergency management staff with home and office numbers. Update frequently and keep confidential.

- ✓ Equipment and supply listings. Include a brief description of type of equipment, amount of available supplies, and locations of both.
- ✓ Field and regional office/facility locations. Include maps, personnel, contact data and a list of available equipment and supplies for each location.
- ✓ Lists of private sector supplies and equipment that can supplement or substitute for agency resources.
- ✓ Media lists with fill-in-the-blank press releases and background materials for a variety of crises. Include television, radio, print, media, and wire services.
- ✓ Maps, charts, and diagrams of major transportation corridors and alternative routes. Emergency vehicles and debris removal teams need fast access during emergencies.



CONTRACTS

Evaluating and awarding contracts to remove and process debris takes time you don't have in a crisis. Create sample contracts that invite bids and request services now, to reduce response time in the future. The contracts vary per emergency. Here are several options:

CONTRACT TYPE	USE WHEN
Time and Material	Short-term Contractor paid by time spent Services for first 70 hours Used immediately after a disaster for emergency life saving activities and debris clearance
Unit Price	Long-term Payment based on construction units Prices and scope of work can be increased/decreased Use beyond initial 70 hours of recovery Use when scope of work is undefined and can be quantified by actual field measures (e.g. recycle 10 tons concrete, 7 trees, etc.)
Lump Sum	Long-term Total contract price by one-item bid Use beyond initial 100 hours of recovery Use when scope of work is clearly defined and areas of work specifically quantified (e.g. demolish and recycle 1 structure for \$10,000)

SAMPLE CONTRACT LANGUAGE

Example 1: City of XYZ cleanup contract.



Notice Inviting Bids

◆ In response to the tornado of September 16, 1999, the City of XYZ has stockpiled disaster related debris at two designated sites. The North Carolina Solid Waste Management Act (G.S. 130A-309.04(c)) requires that the City of XYZ take steps to reduce the amount of waste going to landfills. Consequently, the stockpiled materials shall be diverted from landfills to the greatest extent possible.

Contractor Service Requirements

- ◆ Contractor should transport recovered material to a permitted resource recovery facility within a 40-mile radius from sites.
- ◆ Contractor shall provide all necessary equipment, materials and labor necessary to remove and recover, to the extent possible, all stockpiled disaster related debris at the sites.
- ◆ Contractor shall haul all material that is non-recoverable to a state-permitted sanitary landfill for disposal.
- ◆ Contractor shall provide the City of XYZ with documentation of the amount and type of material removed from the sites.
- ◆ 'Recover' means to utilize materials which can be used as raw materials in the manufacture of new products, or as values which can be converted into a fuel or energy source. 'Recover' may include reuse, recycling, waste-to-energy, composting, and/or other components.

Example 2: City of ABC, master contract, 1999 Hurricane Sam.



The City let a master contract for the removal, disposal, and recycling of debris. Bid specifications for the contractors to remove the debris stated that the contractor is responsible for removal and transportation of cut trees to proper recycling or recovery facilities and that the contractor must segregate metals, concrete, and other recyclables from non-recyclable debris at the site of generation.

◆ Additionally, the City provided contractors with the names of Triangle area construction and demolition waste recyclers, and required contractors to provide weekly load verification reports to prove that the materials were entering a recycling facility.

Example 3: City of LMN, building demolition, spring 1998 flood



Project Requirements

- ◆ Recycle demolition materials to the greatest extent possible without delaying the project.
- ◆ Summarize and document the amounts and types of materials directly recycled and material removed from the site on the recycling log attached to this Contract. Documentation includes receipts of materials sold, etc.
- ◆ Demolition debris not directly recycled from the site must be hauled to the recycling facility (not landfill) located at (site). The recycling facility located at (address) charges \$ xx/ton for inert material and \$ xx/ton for mixed loads.
- ◆ Identify loads to (site) as "City Demolition Debris," state the demolition site address, and pay all allocated fees. A representative from the City Solid Waste Management Office will collect copies of weight tickets from the previous day's work at the demolition site on a regular basis. Copies of weight tickets must also be turned in to the Engineer at the completion of the project.
- ◆ Note: Contractor will be assessed a non-compliance fee of \$ XXX per load for any documented mixed debris that is not delivered to the recycling center at (address). The non-compliance fee will be deducted from final payment.



REFERENCES

- ❖ California Integrated Waste Management Board- Disaster Plan, January 1997 (<http://www.ciwmb.ca.gov>)
- ❖ Public Assistance Debris Management Guide, FEMA, (FEMA 325) April 1999

For Federal Regulations refer to:

- ◆ The Robert T. Stafford Disaster Relief and Emergency Assistance Act, Public Law 93-288 Amended. This act summarizes the process and procedures for declaration, response, and recovery during federally declared disasters.
- ◆ Code of Federal Regulations Title 44 Part 13 - Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments. These regulations describe the administrative procedures and requirements for subgrantees receiving federal funding and awarding contracts for disaster-related repairs.

Available at <http://www.fema.gov/library/stafact.htm>

- ◆ Code of Federal Regulations Title 44 Part 206-Federal Disaster Assistance for Disasters Declared on or after November 23, 1988. This regulation describes rules and requirements for Public Assistance Project Administration, applicant and work eligibility, and hazard mitigation.

- ◆ FEMA State and Local Guide (SLG) 101: Guide for All-Hazard Emergency Operations Planning (September 1996). Available at <http://www.fema.gov/pte.gaheop.htm>

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For technical assistance or information on North Carolina guidelines contact:

N C Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601
(919) 733-4984
<http://www.enr.state.nc.us>

Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646
(919) 508-8400 (919) 733-4810 fax
<http://wastenotnc.org>

**Department of Pollution Prevention
And Environmental Assistance**
1639 Mail Service Center
Raleigh, NC 27699-1639
(919) 715-6500 (919) 715-6794 fax
<http://www.p2pays.org>

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